SERVICE MANUAL

FISHER

CR-5122

Stereo Cassette Tape Deck with Double Dolby and Three Heads

The First Name in High Fidelity

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SPECIFICATIONS

Power Source
- AC ..... 120V/220V (50/60 Hz)

Power Consumption ..... 38 W
Recording System ..... AC Bias
Erasing System ..... AC Erasing
Tape Speed ..... 4.75 cm/sec. ± 0.12%
Fast Forward Time ..... 110 sec. (with C-60 cassette tape)
Rewind Time ..... 110 sec. (with C-60 cassette tape)
Wow & Flutter ..... 0.08% (WRMS)
Frequency Response (Overall, Dolby: off)
- Fe_2O_3 (7dB band) ..... 40 – 14,000 Hz
- FeCr (7dB band) ..... 40 – 15,000 Hz
- CrO_2 (7dB band) ..... 40 – 16,000 Hz

Signal to Noise Ratio (According to DIN method: Unweighted with CrO_2)
- without Dolby ..... Better than 42dB
- with Dolby ..... Better than 44dB

Signal to Noise Ratio (According to DIN method: Weighted with CrO_2)
- without Dolby ..... Better than 52dB
- with Dolby ..... Better than 56dB

Crosstalk (with Fe_2O_3)
- Track to Track ..... Better than 60dB

Channel Separation (with Fe_2O_3) ..... Better than 25dB
Harmonic Distortion (K3)
- Fe_2O_3 ..... 2.5%
- FeCr 2.5%
- CrO_2 ..... 3%

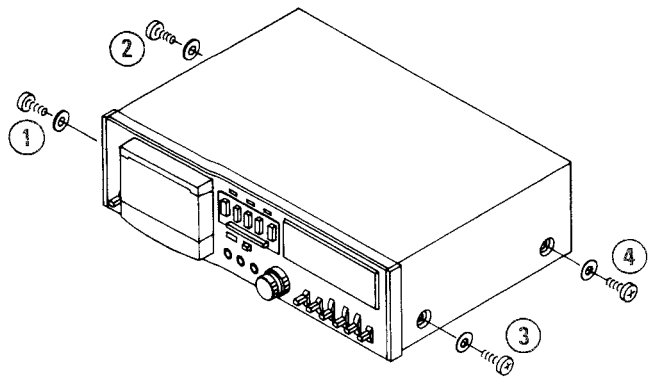
Terminal Impedance
- Microphone ..... 10 k-ohm/0.2 mV
- LINE IN ..... 100 k-ohm/100 mV
- LINE OUT ..... 5 k-ohm/1 V (47 k-ohm load)
- DIN INPUT ..... 12 k-ohm/1.2 mV
- DIN OUTPUT ..... 10 k-ohm/1.1 V (470 k-ohm load)
- Headphone ..... 100 ohm/40 mV (8 ohm load)

– Specifications subject to change without notice.–

DISASSEMBLY INSTRUCTIONS

COVER REMOVAL

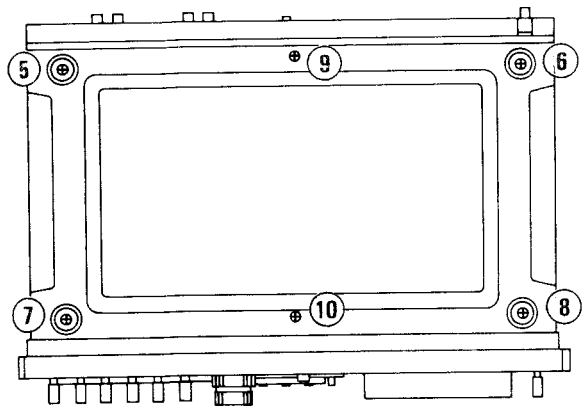
1. Unscrew the four screws (1 – 4) fastening the Cover and remove the four washers.



2. Remove the Cover by lifting it.
3. Reassemble in the reverse order.

SHEET PANEL REMOVAL

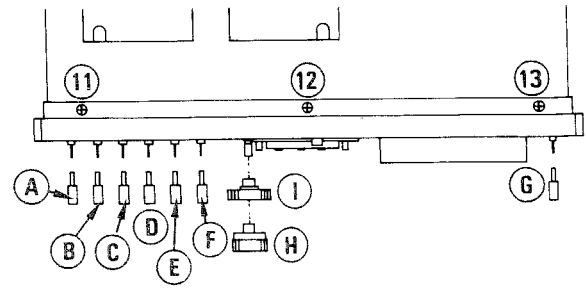
1. Turn over the unit on a clean soft surface.
2. Remove the four Legs by unscrewing the four screws (5 – 8) fastening them.
3. To remove the Sheet Panel, unscrew the two screws (9 – 10) fastening it.



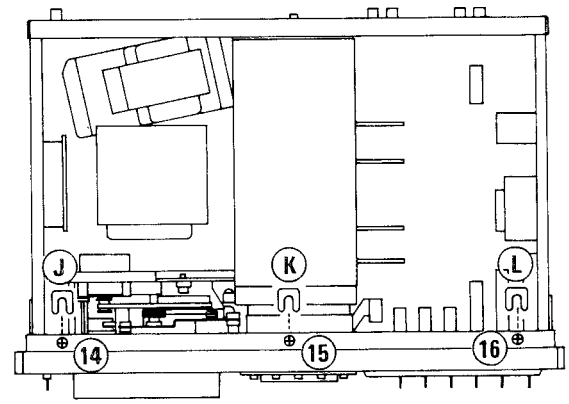
4. Reassemble in the reverse order.

COMPLETED FRONT PANEL REMOVAL

1. Follow the instructions for the Cover Removal.
2. Pull out the seven Switch Knobs (A – G) and the INPUT Level Control Knobs (H and I).
3. Turn over the unit on a soft surface and unscrew the three screws (11 – 13) fastening the lower side of the Front Panel.

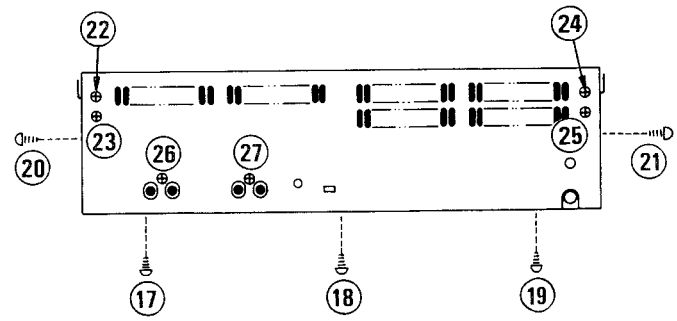


4. Place the unit in an upright position and unscrew the three screws (14 – 16) fastening the upper side of the Front Panel.
5. Pull out the two connectors (CN3 and CN8) from the Amplifier Base P.C.Board. Then, remove the connector lead wires from the wire band.
6. Remove the three spacers (J – L) and the Completed Front Panel by pulling the Front Panel off the unit.



REAR PANEL REMOVAL

1. Follow the instructions for the Cover Removal.
2. Uncrew the nine screws (17 – 25) fastening the Rear Panel. Then, unscrew the two screws (26 and 27) holding the Jacks (LINE IN and LINE OUT) to remove the Rear Panel.

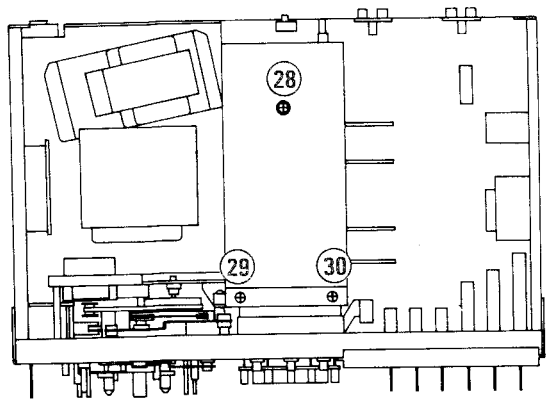


3. Reassemble in the reverse order.

DISASSEMBLY INSTRUCTIONS (Continued)

CONTROL AMPLIFIER P.C.BOARD ASSEMBLY REMOVAL

1. Follow the instructions for the Cover Removal.
2. Unscrew the three screws (28 – 30) fastening the Control Amplifier P.C.Board and remove a fiber washer.

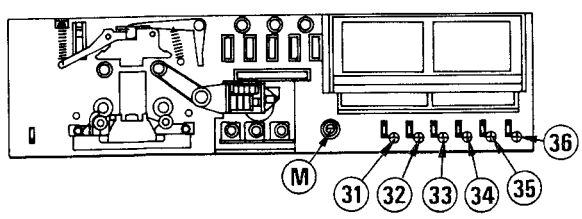


3. To remove the Control Amplifier P.C.Board Assembly, pull out the eight connectors (CN10 – CN17) from the Control Amplifier P.C.Board.
4. Reassemble in the reverse order. Follow the instructions for the Control Amplifier P.C.Board Mounting in the Mechanical Adjustments whenever the P.C.Board is attached to the unit.

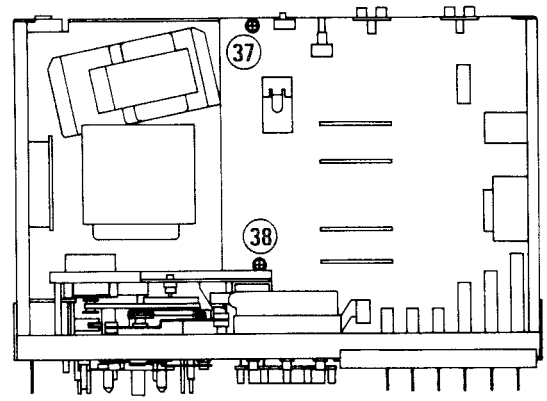
NOTE:
Refer to the Wiring Diagram when the connectors are attached to the Control Amplifier P.C.Board.

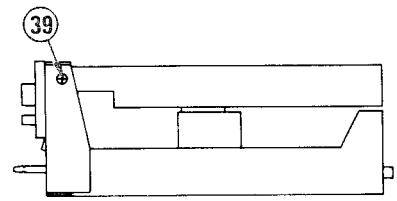
AMPLIFIER BASE P.C.BOARD ASSEMBLY REMOVAL

1. Follow the instructions for the removal of the Cover, Rear Panel, Completed Front Panel and Control Amplifier P.C.Board Assembly.
2. Unscrew the six screws (31 – 36) fastening the Switches and remove a Nut (M) and a washer holding the INPUT Level Controls.



3. Unscrew the two screws (37 and 38) and the two fiber washers holding the Amplifier P.C.Board and then, unscrew a screw (39) fastening the Frame.



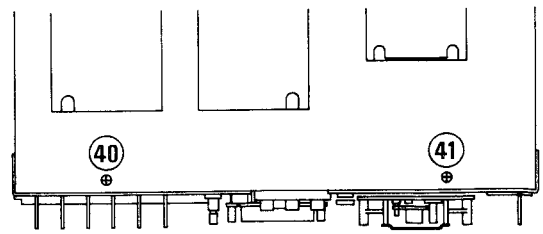


4. Unsolder the four lead wires (two black, blue, and red) from the Meters. Pull out the four connectors (CN4, CN5, CN7, and CN9) from the Amplifier Base P.C.Board, and a connector (CN21) from the Power Supply P.C.Board.
5. Then, carefully remove the Amplifier Base P.C.Board from the unit.
6. Reassemble in the reverse order.

NOTE:
Refer to the Wiring Diagram when the connectors are attached to the Amplifier Base P.C.Board, and the lead wires are soldered to the Meters.

CHASSIS ASSEMBLY REMOVAL

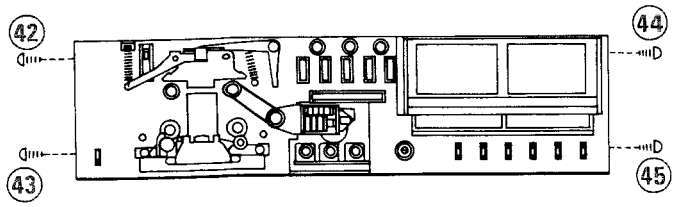
1. Remove the Cover, Completed Panel and Control Amplifier P.C.Board Assemblies by following the instructions for each removal.
2. Turn over the unit and unscrew the two screws (40 and 41) fastening the Chassis. Then, place the unit in an upright position.



DISASSEMBLY INSTRUCTIONS (Continued)

3. Unscrew the six screws (31 – 36) fastening the Switches, and remove a Nut (M) and a washer holding the INPUT Level Controls.

4. Unscrew the four screws (42 – 45) fastening the both sides of the Chassis.



5. Unsolder the five lead wires (two black, blue, red, and gray) from the Meters and pull out the four connectors (CN4, CN5, CN7, and CN9) from the Amplifier Base P.C.Board, and the two connectors (CN22 and CN23) from the Power Supply P.C.Board.

6. Pull the Chassis Assembly off the unit.

7. Reassemble in the reverse order.

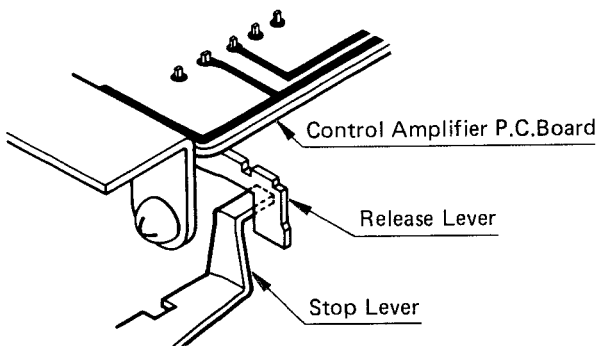
NOTE:
Refer to the Wiring Diagram when the connectors are attached to the Amplifier Base P.C.Board and the lead wires are soldered to the Meters.

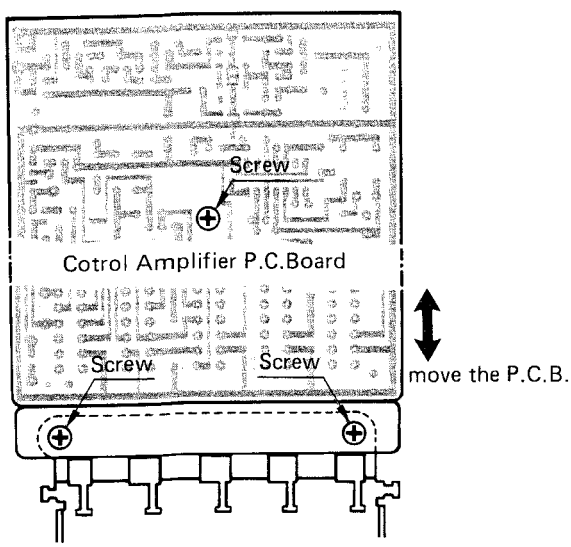
MECHANICAL ADJUSTMENTS

CONTROL AMPLIFIER P.C.BOARD MOUNTING

* Mount the P.C.Board by the following procedures.

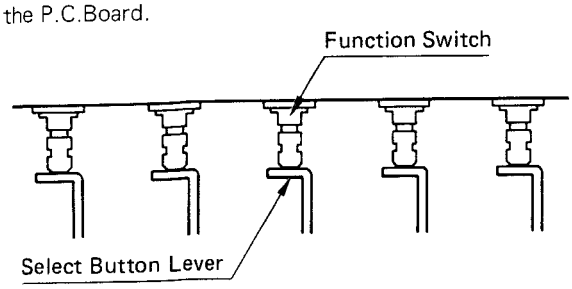
1. Mount the Control Amplifier P.C.Board by temporarily tightening the three screws, so that the Stop Lever of the Completed Select Button is located below the Release Lever of the Function Switch as illustrated.





NOTE:
The Control Amplifier P.C.Board can easily be slided.

2. Move the P.C.Board to bring each Select Button Lever into contact with each switch. Then, adjust the mounting position of the P.C.Board correctly confirming that each button except PAUSE button is securely locked by moving the P.C.Board.

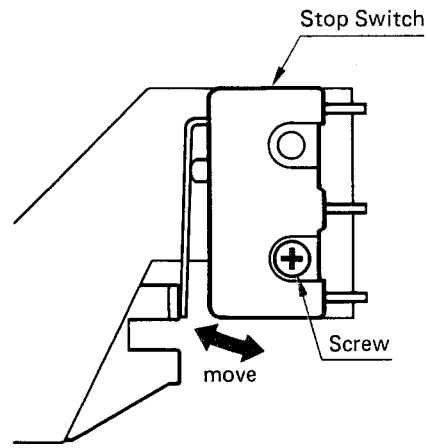


3. After tightening the mounting screws, try to push the Select Buttons again and confirm that they are securely locked.

STOP SWITCH POSITION ADJUSTMENT

1. Push one of the Select Buttons and lock it. Then, gradually push the STOP button. The Select Button should be released after the Stop Switch is changed over.

2. If necessary, loosen the screw fastening the Switch and adjust the position by moving the Switch as illustrated.



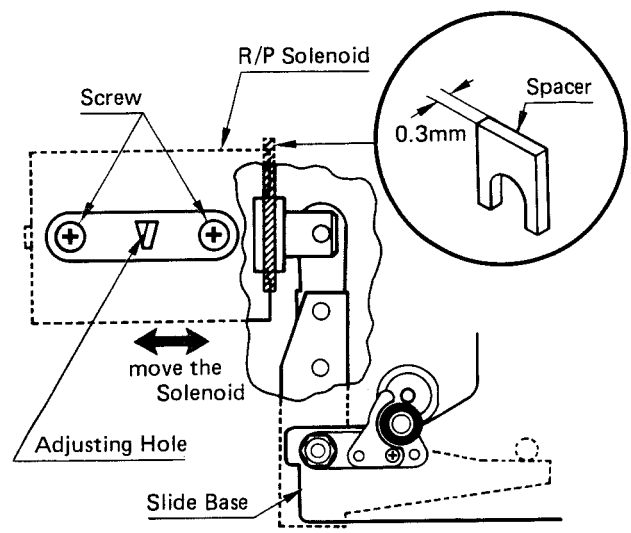
3. After the adjustment, tighten the screw and secure it with paint or glue.

NOTE:
Turn off the Power Switch whenever this adjustment is performed.

R/P SOLENOID POSITION ADJUSTMENT

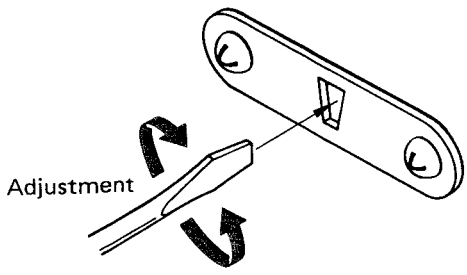
1. Remove the Cover and Completed Front Panel by following the removal of the Cover and Completed Front Panel. Prepare for a spacer of 0.3mm as illustrated.

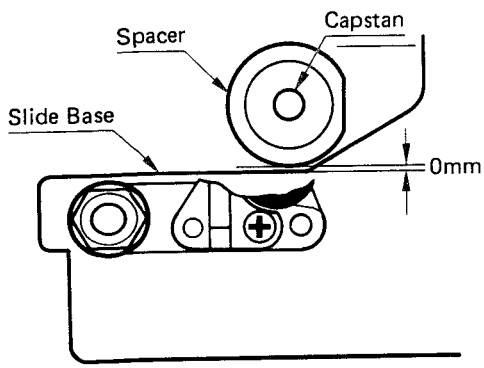
2. Loosen the two screws fastening the Solenoid and apply the spacer to the Solenoid as illustrated. Then, set the unit in the playback mode by pushing the PLAY button.



MECHANICAL ADJUSTMENTS (Continued)

3. Insert a minus screwdriver into the adjusting hole as illustrated and turn the screwdriver to obtain the clearance of "0" between the Slide Base and the spacer. Then, check to see that there is a clearance between the Pinch Roller Arm and Slide Base.





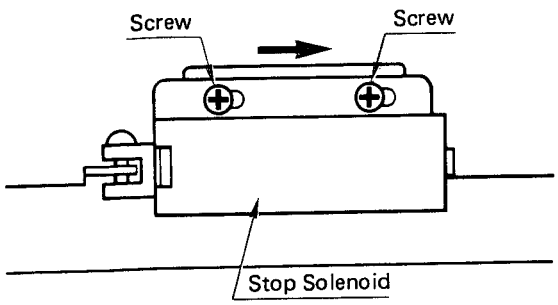
4. After the adjustment, tighten the fastening screws and secure them with paint or glue. Then, take out the Spacer from the Solenoid after the STOP button is pushed.

STOP SOLENOID MOUNTING

* Mount the Stop Solenoid by the following procedures whenever it is replaced or removed.

1. Mount the Stop Solenoid on the Completed Select Button by temporarily tightening the two screws.

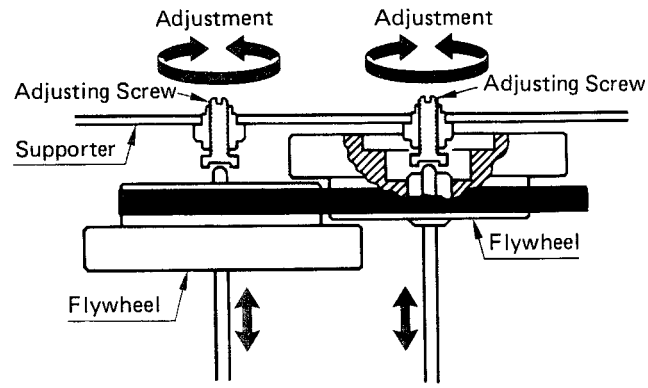
2. Press the Solenoid in the direction of the arrow as illustrated and tighten the fastening screws.



3. After mounting, secure the screws with paint or glue.

FLYWHEEL ADJUSTING SCREW ADJUSTMENT

1. While moving the Capstan up and down as illustrated, slowly turn the Flywheel Adjusting Screw clockwise to obtain the clearance of "0" between the Adjusting Screw and Flywheel.



NOTE:
Do not turn the Flywheel Adjusting Screw forcibly.

2. Turn the Screw counter-clockwise by 45° – 90° from the position obtained in Item 1.

3. After the adjustment, secure the Screw with paint or glue.

4. Perform the same adjustment for the other adjusting screw.

ELECTRICAL ADJUSTMENTS

REQUIRED EQUIPMENTS

- VTVM
- Frequency Counter
- Audio Signal Generator
- Attenuator
- Dummy Load (47 k-ohm)
- Dual-phenomenon Synchroscope
- Test Tapes
  - * 3 kHz test tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - * 10 kHz test tape (Example: TEAC MTT-114) for Head Azimuth Adjustment
  - * Test Tape for Dolby Level Calibration (Example: TEAC MTT-150) in Playback Gain Adjustment
- Test Tapes for recording and playback operations
  - * Normal Tape (Example: BASF TP-18LHS T308S)
  - * Ferrite Chromium Tape (Example: SONY DUAD C-60)
  - * Chromium Dioxide Tape (Example: BASF TP-18CrO2 C401R)
- Test Tapes for Tape Running Condition Adjustment
  - * TDK SA C-90
  - * MAXELL UDXLII C-90
- Alignment Tool

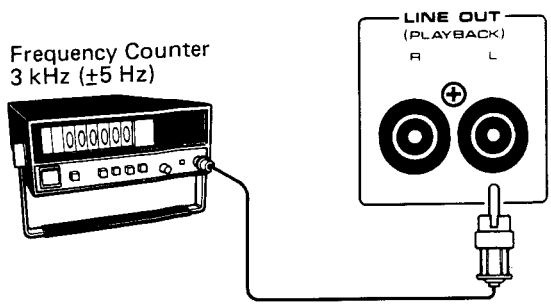
Prior to the Electrical Adjustments, set the unit and the measuring instruments as follows:

* Dolby FM Switch ..... OFF
* Dolby NR Switch ..... OFF
* Bias Switch ..... LOW
* Equalizer Switch ..... NORMAL
* Input Select Switch ..... LINE
* Monitor Switch ..... TAPE
* Audio Signal Generator ..... 1 kHz 0 dB, 1 V

NOTE:
The Electrical Adjustments should be performed in the order as below.

TAPE SPEED ADJUSTMENT

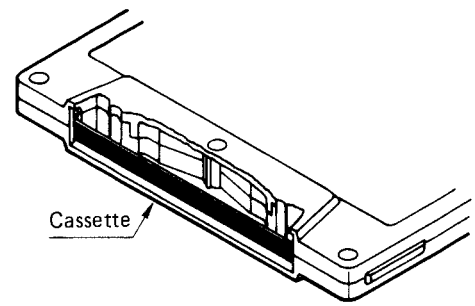
1. Remove the Cover from the unit and connect a frequency counter to the left or right channel LINE OUT as illustrated.



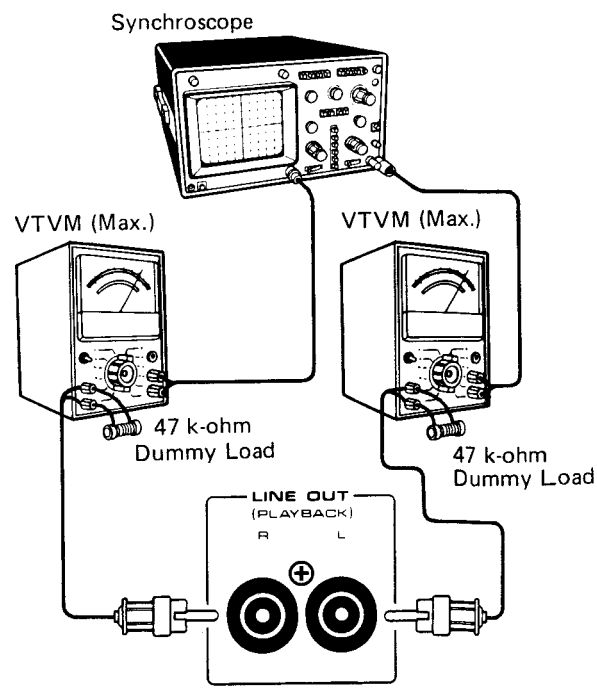
2. Play back a 3 kHz test tape (Example: TEAC MTT-111). Then, adjust the potentiometer inside the Motor for the Capstan by turning it while the test tape is being played back until the frequency counter reading becomes 3 kHz (±5 Hz).

HEAD AZIMUTH & TAPE RUNNING CONDITION ADJUSTMENT

1. Prepare for the two test tapes as described below for the Tape Running Condition Adjustment.
   We recommend "TDK SA C-90 and MAXELL UDXLII C-90 cassette tapes" for this adjustment.



2. Connect a dual-phenomenon synchroscope to the both channel LINE OUT as illustrated. Then, set the synchroscope as follows:
   * MODE ..... CHOP (chopped)
   * SOURCE ..... INT (internal), CH1 or CH2
   * SWEEP MODE ..... AUTO (automatic)

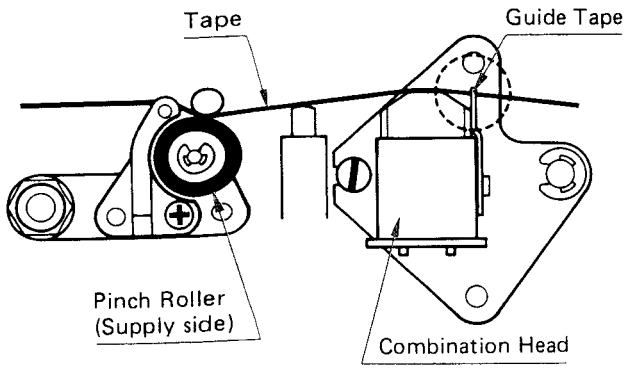


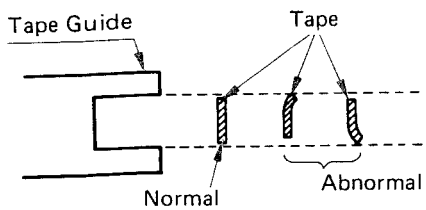
NOTE:
Adjust the field on the synchroscope with the VOLT. ADJ. and TIME ADJ.

3. Remove the Head Cover from the unit. Then, remove the Pinch Roller of the supply side by unscrewing the adjusting nut.

ELECTRICAL ADJUSTMENTS (Continued)

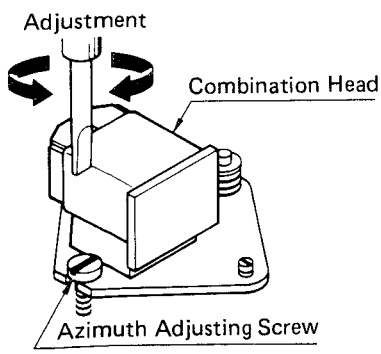
. Insert the two test tapes into the cassette compartment alternately and play them back. Then, check to see that the tape is not curling along the Tape Guide of the Combination (Record/Playback) Head as illustrated.

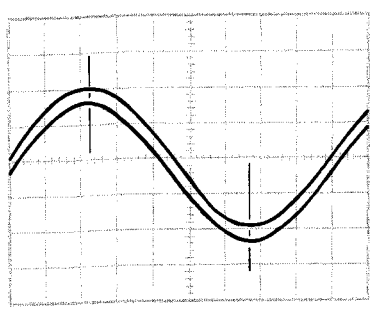




NOTE:
Replace the Pinch Roller of the Take-up side with a new one if a tape curl is caused.

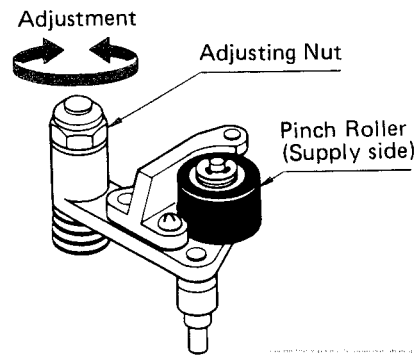
5. Insert the 10 kHz test tape (Example: TEAC MTT-114) into the cassette compartment and adjust the Azimuth Adjusting Screw by turning it until the wave forms of both channel output overlap as well as possible in the maximum condition of the VTVM.

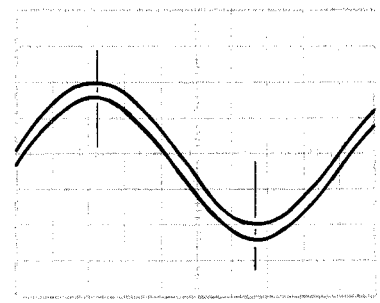




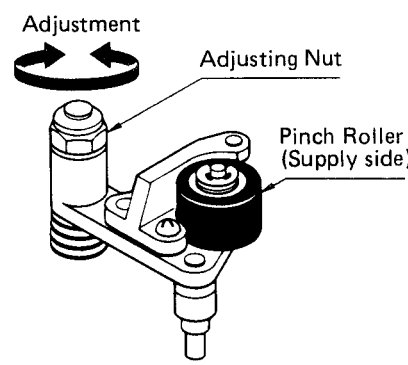
6. Attach the Pinch Roller of the take-up side to the unit and play back the test tapes for the Tape Running Condition Adjustment. Then, adjust the Pinch Roller height by turning the adjusting nut until the tape curl is released from the Tape Guide of the Combination Head.

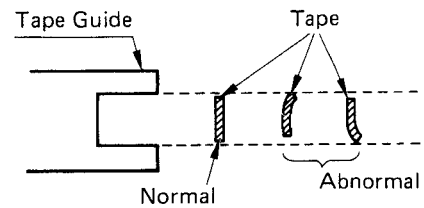
7. While the 10 kHz test tape (Example: TEAC MTT-114) is being played back, turn the adjusting nut until the wave forms of both channel output ovelap as well as possible in the maximum condition of the VTVM.





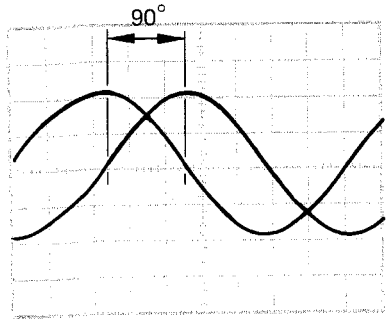
8. Then, re-check to see that the tape is not curling along the Tape Guide of the Combination Head while the test tapes for the Tape Running condition are being played back.
   * If necessary, adjust the adjusting nut until the tape curl is released from the Tape Guide of the Combination Head.



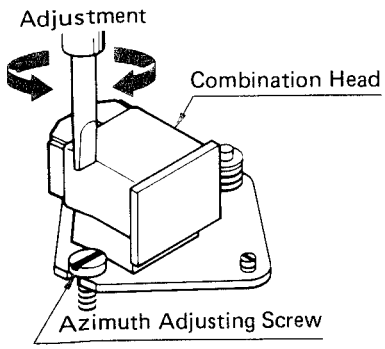


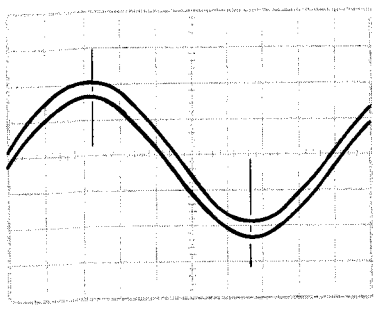
ELECTRICAL ADJUSTMENTS (Continued)

9. While the 10 kHz test tape is being played back again, check to see that the phase difference of both channel output is ±90° on the synchroscope.



A. While the test tape is being played back, adjust the azimuth adjusting screw until the wave forms of both channel output overlap as well as possible.





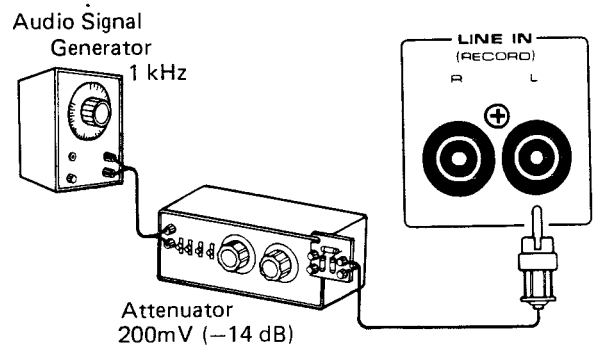
B. If not, replace the Pinch Roller of the take-up side with the other one and perform the adjustment from Item 6.

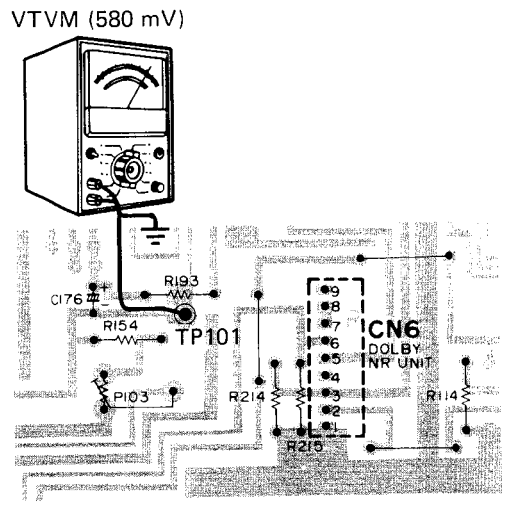
10. After the adjustment, secure the azimuth adjusting screw with paint or glue.

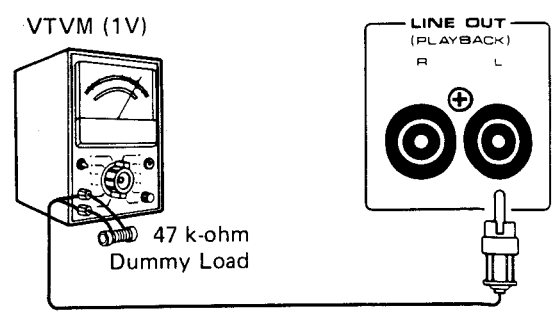
AMPLIFIER GAIN ADJUSTMENT

LEFT CHANNEL

1. Connect an audio signal generator and an attenuator to the left channel LINE IN, a VTVM to the test point (TP101), and a VTVM to the left channel LINE OUT as illustrated.







2. Set the Monitor Switch to SOURCE and feed the 1 kHz signal from the audio signal generator at 200 mV (–14 dB) to the unit.

3. Adjust the left channel INPUT Level Control until the output level on the test point (TP101) becomes 580 mV on the VTVM.

ELECTRICAL ADJUSTMENTS (Continued)

Then, adjust the potentiometer (P103) until the output level of 1 V on the LINE OUT is obtained on the VTVM keeping the unit in the above condition.

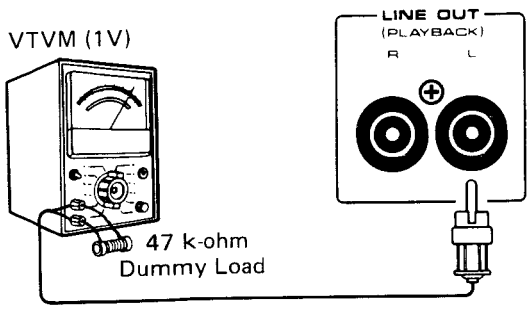
RIGHT CHANNEL

Connect an audio signal generator to the right channel LINE IN, a VTVM to the test point (TP201), and a VTVM to the right channel LINE OUT. Then, adjust the right channel INPUT Level Control and the potentiometer (P203) for the right channel by following the same procedure as for the left channel.

'LAYBACK GAIN & METER LEVEL ADJUSTMENT

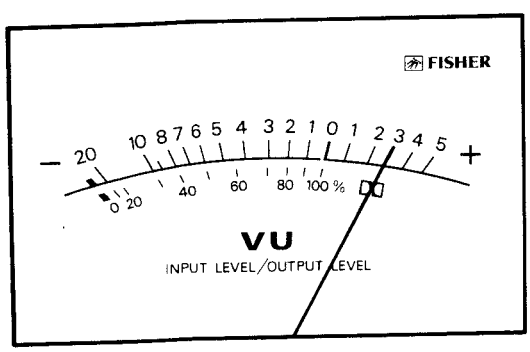
LEFT CHANNEL

. Connect a VTVM to the left channel LINE OUT as illustrated. Then, insert a test tape for the DOLBY Level calibration (Example: TEAC MTT-150) into the cassette compartment.



2. While the test tape is being played back, adjust the potentiometer (P107) until the output level becomes 1 V on the VTVM.

3. Keeping the unit in the playback mode, adjust the potentiometer (P102) until the pointer of the left channel Meter swings to +3 VU (DOLBY mark position) as illustrated.



RIGHT CHANNEL

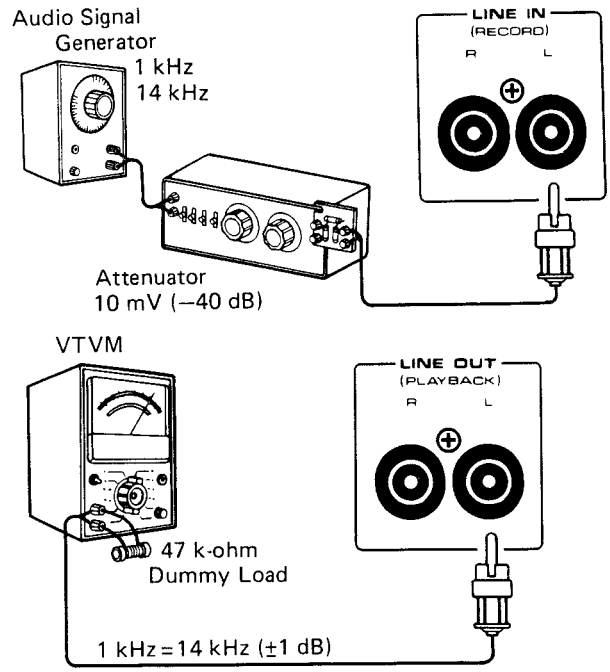
Connect a VTVM to the right channel LINE OUT. Then, adjust the potentiometers (P207 and P202) for the right channel by following the same procedure as for the left channel.

RECORDING BIAS ADJUSTMENT

- **for Chromium Dioxide Tape**

LEFT CHANNEL

1. Connect an audio signal generator and an attenuator to the left channel LINE IN, and a VTVM to the left channel LINE OUT as illustrated, Then, insert a chromium dioxide tape (Example: BASF TP-18CrO2 C401R) into the cassette compartment.



2. Set the Equalizer Switch to CrO2, and the Bias Switch to HIGH.

3. Set the Monitor Switch to TAPE and feed the 1 kHz signal from the audio signal generator at 10 mV (–40 dB) to the unit with the INPUT Level Control set to the maximum. Then, set the unit in the recording mode and read the output level on the VTVM.

4. While the signal is being recorded, change the audio signal generator from the 1 kHz signal to the 14 kHz signal. Then, check that the 14 kHz signal output level is identical to the 1 kHz signal output level or the deviation is ±1 dB on the VTVM.

5. If not, adjust the potentiometer (P109) and re-check the outputs of each signal by alternately changing the audio signal generator to the 1 kHz signal and the 14 kHz signal.

6. Repeat the above adjustment until the specified output is obtained.

RIGHT CHANNEL

Connect an audio signal generator and an attenuator to the right channel LINE IN, and a VTVM to the right channel LINE OUT. Then, adjust the potentiometer (P209) for the right channel by following the same procedure as for the left channel.

ELECTRICAL ADJUSTMENTS (Continued)

- **for Ferrite Chromium Tape**

Set the Switches as follows:
* Equalizer Switch . . . . . FeCr
* Bias Switch . . . . . MID.

Then, insert a ferrite chromium tape (Example: SONY DUAD C-60) into the cassette compartment.
Adjust the potentiometers by following the conditions described below and the same procedure as for the Chromium Dioxide Tape.
* Input Signals . . . . . 1 kHz and 14 kHz
* Input Level . . . . . 10 mV (−40 dB)
* Potentiometers for adjustment
  Left channel P108
  Right channel P208

- **for Normal Tape**

Set the Switches as follows:
* Equalizer Switch Fe2O3
* Bias Switch . . . . . LOW

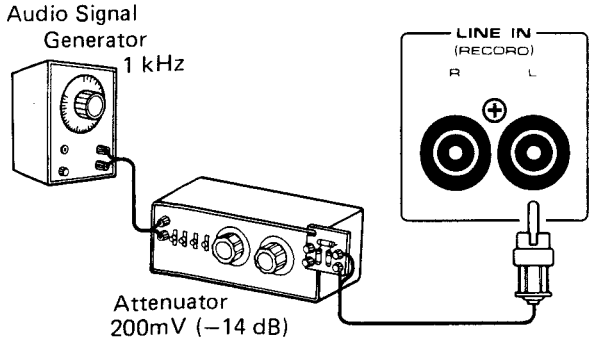
Then, insert a normal tape (Example: BASF TP-18LHS T308S) into the cassette compartment.
Adjust the potentiometers by following the conditions described below and the same procedure as for the Chromium Dioxide Tape.
* Input Signals . . . . . 1 kHz and 13 kHz
* Input Level . . . . . 10 mV (−40 dB)
* Potentiometers for adjustment
  Left channel P110
  Right channel P210

RECORDING GAIN ADJUSTMENT

- **For Chromium Dioxide Tape**

LEFT CHANNEL

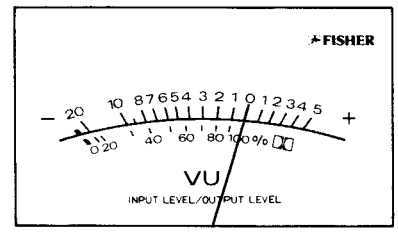
1. Connect an audio signal generator and an attenuator to the left channel LINE IN as illustrated. Then, insert a chromium dioxide tape (Example: BASF TP-18CrO2 C401R) into the cassette compartment.



2. Set the Equalizer Switch to CrO2, and the Bias Switch to HIGH.

3. Set the Monitor Switch to SOURCE and feed the 1 kHz signal from the audio signal generator at 200 mV (−14 dB) to the unit.

4. Set the unit in the recording mode and adjust the INPUT Level Control until the pointer of the left channel Meter swings to 0 VU as illustrated while the 1 kHz signal is being recorded.



5. Change the Monitor Switch from SOURCE to TAPE and check to see that the pointer of the left channel Meter stays at 0 VU.

6. If not, adjust the potentiometer (P104) and check the swing of the pointer.

7. Repeat the above adjustment until the pointer of the left channel meter stays at 0 VU.

RIGHT CHANNEL

Connect an audio signal generator and an attenuator to the right channel LINE IN. Then, adjust the potentiometer (P204) for the right channel by following the same procedure as for the left channel.

- **for Ferrite Chromium Tape**

Set the Switches as follows:
* Equalizer Switch . . . . . FeCr
* Bias Switch . . . . . MID.

Then, insert a ferrite chromium tape (Example: SONY DUAD C-60) into the cassette compartment.
Adjust the potentiometers by following the conditions described below and the same procedure as for the Chromium Dioxide Tape.
* Input Signal . . . . . 1 kHz
* Input Level . . . . . 200 mV (−14 dB)
* Potentiometers for adjustment
  Left channel P106
  Right channel P206

- **for Normal Tape**

Set the Switches as follows:
* Equalizer Switch Fe2 O3
* Bias Switch . . . . . LOW

Then, insert a normal tape (Example: BASF TP-18LHS T308S) into the cassette compartment.
Adjust the potentiometers by following the conditions described below and the same procedure as for the Chromium Dioxide Tape.
* Input Signal . . . . . 1 kHz
* Input Level . . . . . 200 mV (−14 dB)
* Potentiometers for adjustment
  Left channel P105
  Right channel P205

PARTS LIST

Ref. No.	Part No.	Description	Q'ty
	PACKAGE		
	141 6 1419 37502	Individual Carton	1
	141 6 1419 39900	Individual Carton	1
	141 6 1449 52400	Styrofoam Case	2
	141 6 1449 55700	Styrofoam Pad	1
	141 6 2519 08490	Poly Cover	1
	141 6 2519 10018	Poly Cover	1
	141 6 2519 10022	Poly Cover	1
	141 6 2519 23033	Poly Cover	1
	141 6 3919 36300	Plain Pad	1
	141 6 4559 00100	Serial No. Sheet	1
	141 6 4559 02300	Serial No. Sheet	1
	141 6 4729 07700	Caution Label	1
	ACCESSORIES		
	4 2369 70571	Patch Cord	2
	141 6 4119 78400	Instruction Manual	1
	141 6 4519 19401	Warranty Card	1
	CABINET		
C610	4 2239 70280	Capacitor 0.01 μ	1
S11	4 2319 73201	Power Switch	1
S12	4 2319 72140	Slide Switch (Voltage Select)	1
	4 2379 70560	Terminal	1
	4 2439 70350	Power Cord	1
T601	4 2519 72730	Power Transformer	1
	141 0 1119 56101	Front Panel Complete	1
	141 0 1539 00501	Head Cover Assy	1
	141 0 3779 00400	P.C.B. Support Assy	1
	141 2 1119 50401	Cover	1
	141 2 1119 50501	Rear Panel	1
	141 2 1149 19101	Frame	1
	141 2 1149 19102	Frame	1
	141 2 1249 19000	Dust Cover	1
	141 2 1259 02400	Panel Sheet	1
	141 2 1449 39900	Blind Cover	1
	141 2 1539 10100	Blind	1
	141 2 3119 11000	Cabinet Chassis	1
	141 2 3519 38400	P.C.B. Bracket	1
	141 2 3519 41300	Circuit Bracket	1
	141 2 3529 16801	Spacer	3
	141 2 3719 04200	Power Transformer Bracket	1
	141 2 3719 04400	Transformer Cover	1
	141 2 3899 05100	Power Cord Clamp	1
	141 2 3899 05900	Cord Holder	1
	141 2 4359 16600	Insulator	1
	141 2 4359 21800	Insulator (for C610)	1
	141 2 4469 26700	Indicator Cushion	2
	141 2 4469 27900	Cushion	2
	141 2 4539 03200	Fiber Washer	3
	141 2 4539 12400	Washer	4
	141 2 4569 06800	Washer, Transformer	3
	141 2 4729 04100	Lug	2
	141 2 7519 38900	Snap	2
	101 3 1202 60411	Screw, Flat Hd. +M2.6x4	2
	101 3 1203 00811	Screw, Flat Hd. +M3.0x8	2
	101 3 1302 00511	Screw, Pan Hd. +M2.0x5	2
	101 3 1303 00511	Screw, Pan Hd. +M3.0x5	4
	101 3 1303 00611	Screw, Pan Hd. +M3.0x6	3
	101 3 1303 01411	Screw, Pan Hd. +M3.0x14	1
	101 3 1304 00811	Screw, Pan Hd. +M4.0x8	2
	101 3 1704 00518	Screw, Bind Hd. +M4.0x5	4
	104 3 1303 01411	Screw, Pan Hd. Tapping-3 +M3.0x14	2
	110 3 1203 00013	Finished Washer M3.0	1
	131 2 1801 13200	Leg	4
	131 2 4201 17800	Screw, Ground	1
	131 3 1303 00511	Screw, Pan Hd. C SW +M3.0x5	6
	131 3 1303 00611	Screw, Pan Hd. C SW +M3.0x6	4
	143 3 1903 00611	Screw, Brassiere Hd. Tapping-B +M3.0x6	10

Ref. No.	Part No.	Description	Q'ty
	CABINET		
	143 3 1903 00618	Screw, Brassiere Hd. Tapping-B +M3.0x6	15
	143 3 1903 00811	Screw, Brassiere Hd. Tapping-B +M3.0x8	3
	143 3 1903 00818	Screw, Brassiere Hd. Tapping-B +M3.0x8	2
	143 3 1903 01411	Screw, Brassiere Hd. Tapping-B +M3.0x14	4
	141 0 1619 24400	Switch Knob Assy	7
	141 2 1619 52900	Reset Button	1
	141 2 1639 26400	Knob	1
	141 2 1639 26500	Knob	1
	PAUSE INDICATOR P.C.B. ASSY		
	4 1329 74220	Pause Indicator P.C.B. Assy	1
D517	4 2029 70720	Diode, SLP-132B	1
	4 2269 30720	Indicator P.C.B.	1
	AMPLIFIER BASE P.C.B. ASSY		
	4 1329 74301	Amplifier Base P.C.B. Assy	1
	141 2 3779 10600	P.C.B. Clamp	4
	141 2 3769 05101	Spacer, Jack	3
	141 2 4729 04400	Staple 12.5	40
	4 2319 73340	Slide Switch Lever (for S3)	1
CN4	4 2369 71480	Connector 3P	1
CN5	4 2369 71850	Connector 4P	1
CN6	4 2359 72150	Connector 9P	1
CN7	4 2359 72350	Connector 4P	1
CN9	4 2369 71850	Connector 4P	1
CN11	4 2359 73990	Connector 3P Assy	1
CN21	4 2359 74000	Connector 3P Assy	1
CN25	4 2359 71600	Connector 6P	1
C101	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C102	CM5 6 3500 K00SV	Mylar 0.056MF 50V ±10%	1
C103	CM1 5 3500 K00SV	Mylar 0.015MF 50V ±10%	1
C104	CD2 2 563A 0000V	Eelctrolytic 2.2MF 6.3V	1
C105	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C106	CD1 0 5160 0000V	Electrolytic 1MF 16V	1
C107	CD3 3 663A 0000V	Electrolytic 33MF 6.3V	1
C108	CC1 5 1500 KE00C	Ceramic 150PF 50V ±10%	1
C109	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C110	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C111	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C112	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C113	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C114	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C115	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C116	CD1 0 5160 0000V	Electrolytic 1MF 16V	1
C117	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C118	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C119	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C120	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C121	CD4 7 5160 0000V	Electrolytic 4.7MF 16V	1
C122	CD1 0 763A 0000V	Electrolytic 100MF 6.3V	1
C123	CC4 7 0500 KE00C	Ceramic 47PF 50V ±10%	1
C125	CM1 0 2500 K00SV	Mylar 0.001MF 50V ±10%	1
C126	CD3 3 663A 0000V	Electrolytic 33MF 6.3V	1
C128	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C131	CT1 0 4160 K00DV	Tantalum 0.1MF 16V ±10%	1
C132	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C139	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C151	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C152	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C153	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C154	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C155	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C156	CD1 0 7250 0000V	Electrolytic 100MF 25V	1
C161	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C162	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C163	CD1 0 6160 0000V	Electrolytic 10MF 16V	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER BASE P.C.B. ASSY			
C164	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C165	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C170	CD4 7 5160 0000V	Electrolytic 4.7MF 16V	1
C172	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C173	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C174	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C175	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C176	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C177	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C178	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C180	CD4 7 6100 0000V	Electrolytic 47MF 10V	1
C190	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C191	CC1 0 3500 KE00C	Ceramic 0.01MF 50V ±10%	1
C201	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C202	CM5 6 3500 K00SV	Mylar 0.056MF 50V ±10%	1
C203	CM1 5 3500 K00SV	Mylar 0.015MF 50V ±10%	1
C204	CD2 2 563A 0000V	Electrolytic 2.2MF 6.3V	1
C205	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C206	CD1 0 5160 0000V	Electrolytic 1MF 16V	1
C207	CD3 3 663A 0000V	Electrolytic 33MF 6.3V	1
C208	CC1 5 1500 KE00C	Ceramic 150PF 50V ±10%	1
C209	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C210	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C211	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C212	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C213	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C214	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C215	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C216	CD1 0 5160 0000V	Electrolytic 1MF 16V	1
C217	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C218	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C219	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C220	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C221	CD4 7 5160 0000V	Electrolytic 4.7MF 16V	1
C222	CD1 0 763A 0000V	Electrolytic 100MF 6.3V	1
C223	CC4 7 0500 KE00C	Ceramic 47PF 50V ±10%	1
C225	CM1 0 2500 K00SV	Mylar 0.001MF 50V ±10%	1
C226	CD3 3 663A 0000V	Electrolytic 33MF 6.3V	1
C228	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C231	CT1 0 4160 K00DV	Tantalum 0.1MF 16V ±10%	1
C232	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C239	CC1 0 1500 KE00C	Ceramic 100PF 50V ±10%	1
C251	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C252	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C253	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C254	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C255	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C256	CD1 0 7250 0000V	Electrolytic 100MF 25V	1
C261	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C262	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C263	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C264	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C265	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C270	CD4 7 5160 0000V	Electrolytic 4.7MF 16V	1
C272	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C273	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C274	CC4 7 1500 KE00C	Ceramic 470PF 50V ±10%	1
C275	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C276	CD1 0 6250 0000V	Electrolytic 10MF 25V	1
C277	CC1 0 2500 KE00C	Ceramic 0.001MF 50V ±10%	1
C278	CD1 0 5250 0000V	Electrolytic 1MF 25V	1
C280	CD4 7 6100 0000V	Electrolytic 47MF 10V	1
C290	CC3 9 0500 KE00C	Ceramic 39PF 50V ±10%	1
C291	CC1 0 3500 KE00C	Ceramic 0.01MF 50V ±10%	1
C301	CD1 0 7250 0000V	Electrolytic 100MF 25V	1
C302	CD1 0 7160 0000V	Electrolytic 100MF 16V	1
C303	CD4 7 7350 0000V	Electrolytic 470MF 35V	1
C304	CD2 2 7350 0000V	Electrolytic 220MF 35V	1
C305	CD4 7 6250 0000V	Electrolytic 47MF 25V	1
C306	CD1 0 7160 0000V	Electrolytic 100MF 16V	1

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER BASE P.C.B. ASSY			
C307	CD4 7 6250 0000V	Electrolytic 47MF 25V	1
C310	CD1 0 7350 0000V	Electrolytic 100MF 35V	1
D101	4 2029 70160	Diode, 1S953	1
D102	202 5 9110 18820	Diode, 1S188	1
D104	202 5 9110 18820	Diode, 1S188	1
D105	4 2029 70160	Diode, 1S953	1
D107	4 2029 70160	Diode, 1S953	1
D110	202 5 9110 18820	Diode, 1S188	1
D112	202 5 9110 18820	Diode, 1S188	1
D113	4 2029 70160	Diode, 1S953	1
D114	4 2029 70160	Diode, 1S953	1
D201	4 2029 70160	Diode, 1S953	1
D202	202 5 9110 18820	Diode, 1S188	1
D204	202 5 9110 18820	Diode, 1S188	1
D205	4 2029 70160	Diode, 1S953	1
D207	4 2029 70160	Diode, 1S953	1
D210	202 5 9110 18820	Diode, 1S188	1
D212	202 5 9110 18820	Diode, 1S188	1
D213	4 2029 70160	Diode, 1S953	1
D214	4 2029 70160	Diode, 1S953	1
IC101	4 2069 70400	IC, TA7139	1
IC102	4 2069 70400	IC, TA7139	1
IC103	4 2069 70410	IC, TA7129	1
IC201	4 2069 70400	IC, TA7139	1
IC202	4 2069 70400	IC, TA7139	1
IC203	4 2069 70410	IC, TA7129	1
J1	4 2359 71242	Jack 1P (Microphone)	1
J2	4 2359 71242	Jack 1P (Microphone)	1
J3	4 2359 71243	Jack 1P (Headphone)	1
J4	4 2359 73600	Jack 2P (Microphone, Line In)	1
J5	4 2359 73600	Jack 2P (Microphone, Line Out)	1
J6	4 2359 71551	DIN Socket 5P	1
L104	4 2559 70030	Coil	1
L204	4 2559 70030	Coil	1
UN302	4 2589 71430	OSC Block	1
UN301	4 1329 74170	EQ Record Unit P.C.B. Assy	1
CN7	4 1329 74230	Wire Lamp Unit P.C.B. Assy	1
UN101	4 1329 74181	DOLBY NR Unit P.C.B. Assy	1
UN102	4 1329 74181	DOLBY NR Unit P.C.B. Assy	1
UN201	4 1329 74181	DOLBY NR Unit P.C.B. Assy	1
UN202	4 1329 74181	DOLBY NR Unit P.C.B. Assy	1
P102	4 2229 72967	Potentiometer 103 (B-10k)	1
P103	4 2229 72967	Potentiometer 103 (B-10k)	1
P104	4 2229 72967	Potentiometer 103 (B-10k)	1
P105	4 2229 72967	Potentiometer 103 (B-10k)	1
P106	4 2229 72967	Potentiometer 103 (B-10k)	1
P107	4 2229 72967	Potentiometer 103 (B-10k)	1
P108	4 2229 72972	Potentiometer 204 (B-200k)	1
P109	4 2229 72972	Potentiometer 204 (B-200k)	1
P110	4 2229 72972	Potentiometer 204 (B-200k)	1
P202	4 2229 72967	Potentiometer 103 (B-10k)	1
P203	4 2229 72967	Potentiometer 103 (B-10k)	1
P204	4 2229 72967	Potentiometer 103 (B-10k)	1
P205	4 2229 72967	Potentiometer 103 (B-10k)	1
P206	4 2229 72967	Potentiometer 103 (B-10k)	1
P207	4 2229 72967	Potentiometer 103 (B-10k)	1
P208	4 2229 72972	Potentiometer 204 (B-200k)	1
P209	4 2229 72972	Potentiometer 204 (B-200k)	1
P210	4 2229 72972	Potentiometer 204 (B-200k)	1
Q101	203 5 5100 53650	Transistor, 2SC536	1
Q102	203 5 5100 69352	Transistor, 2SC693	1
Q103	203 5 5100 53650	Transistor, 2SC536	1
Q104	203 5 5100 69352	Transistor, 2SC693	1
Q105	4 2039 70431	Transistor, 2SC1815	1
Q106	203 5 5100 69352	Transistor, 2SC693	1
Q107	203 5 5100 69352	Transistor, 2SC693	1
Q113	203 5 5100 53650	Transistor, 2SC536	1
Q114	203 5 5100 53650	Transistor, 2SC536	1
Q118	203 5 5100 53650	Transistor, 2SC536	1
Q119	203 5 5100 53650	Transistor, 2SC536	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER BASE P.C.B. ASSY			
120	203 5 5100 53650	Transistor, 2SC536	1
121	4 2039 70100	Transistor, 2SC945	1
122	203 5 5100 69352	Transistor, 2SC693	1
201	203 5 5100 53650	Transistor, 2SC536	1
202	203 5 5100 69352	Transistor, 2SC693	1
203	203 5 5100 53650	Transistor, 2SC536	1
204	203 5 5100 69352	Transistor, 2SC693	1
205	4 2039 70431	Transistor, 2SC1815	1
206	203 5 5100 69352	Transistor, 2SC693	1
207	203 5 5100 69352	Transistor, 2SC693	1
213	203 5 5100 53650	Transistor, 2SC536	1
214	203 5 5100 53650	Transistor, 2SC536	1
218	203 5 5100 53650	Transistor, 2SC536	1
219	203 5 5100 53650	Transistor, 2SC536	1
220	203 5 5100 53650	Transistor, 2SC536	1
221	4 2039 70100	Transistor, 2SC945	1
222	203 5 5100 69352	Transistor, 2SC693	1
	4 2369 70740	RT Pin	1
E1	4 2329 70180	Relay (Record/Play)	1
E2	4 2329 70180	Relay (Record/Play)	1
E3	4 2329 70180	Relay (Record/Play)	1
101	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
102	RD1 6 2251 JV000	Carbon 1.6k ohm 1/4W ±5%	1
103	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
104	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
105	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
106	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R107	RD3 9 4251 KV000	Carbon 390k ohm 1/4W ±10%	1
R108	RD2 2 3251 KV000	Carbon 22k ohm 1/4W ±10%	1
R109	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R110	RD4 7 1251 KV000	Carbon 470 ohm 1/4W ±10%	1
R111	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R112	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R113	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R114	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R115	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R117	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R118	RD1 5 4251 KV000	Carbon 150k ohm 1/4W ±10%	1
R119	RD3 9 3251 KV000	Carbon 39k ohm 1/4W ±10%	1
R120	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R121	RD1 3 2251 JV000	Carbon 1.3k ohm 1/4W ±5%	1
R122	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R123	RD3 9 3251 KV000	Carbon 39k ohm 1/4W ±10%	1
R124	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R125	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R126	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R127	RD1 5 4251 KV000	Carbon 150k ohm 1/4W ±10%	1
R128	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R129	RD1 2 2251 KV000	Carbon 1.2k ohm 1/4W ±10%	1
R130	RD3 3 1251 KV000	Carbon 330 ohm 1/4W ±10%	1
R131	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R132	RD5 6 4251 KV000	Carbon 560k ohm 1/4W ±10%	1
R133	RD2 2 4251 KV000	Carbon 220k ohm 1/4W ±10%	1
R134	RD2 7 4251 KV000	Carbon 270k ohm 1/4W ±10%	1
R135	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R136	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R140	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R141	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R142	RD3 3 4251 KV000	Carbon 330k ohm 1/4W ±10%	1
R144	RD2 4 3251 JV000	Carbon 24k ohm 1/4W ±5%	1
R145	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R146	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1
R147	RD3 0 3251 JV000	Carbon 30k ohm 1/4W ±5%	1
R148	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R149	RD1 0 4251 KH000	Carbon 100k ohm 1/4W ±10%	1
R150	RD3 3 4251 KV000	Carbon 330k ohm 1/4W ±10%	1
R151	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R152	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R153	RD1 0 4251 KH000	Carbon 100k ohm 1/4W ±10%	1
R154	RD6 8 3251 KV000	Carbon 68k ohm 1/4W ±10%	1

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER BASE P.C.B. ASSY			
R156	RD1 8 2251 KV000	Carbon 1.8k ohm 1/4W ±10%	1
R157	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R158	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1
R159	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R160	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R162	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R163	RD8 2 4251 KV000	Carbon 820k ohm 1/4W ±10%	1
R164	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R165	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R171	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R174	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R180	RD1 0 0251 KV000	Carbon 10 ohm 1/4W ±10%	1
R181	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R182	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R183	RD4 7 0251 KV000	Carbon 47 ohm 1/4W ±10%	1
R184	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R185	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R186	RD2 7 4251 KV000	Carbon 270k ohm 1/4W ±10%	1
R187	RD2 2 4251 KV000	Carbon 220k ohm 1/4W ±10%	1
R188	RD2 7 3251 KV000	Carbon 27k ohm 1/4W ±10%	1
R190	RD4 7 2251 KV000	Carbon 4.7k ohm 1/4W ±10%	1
R191	RD1 0 1251 KV000	Carbon 100 ohm 1/4W ±10%	1
R192	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R193	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R194	RD1 2 4251 KV000	Carbon 120k ohm 1/4W ±10%	1
R195	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R196	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R197	RD3 3 1251 KV000	Carbon 330 ohm 1/4W ±10%	1
R198	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R201	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R202	RD1 6 2251 JV000	Carbon 1.6k ohm 1/4W ±5%	1
R203	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R204	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R205	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R206	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R207	RD3 9 4251 KV000	Carbon 390k ohm 1/4W ±10%	1
R208	RD2 2 3251 KV000	Carbon 22k ohm 1/4W ±10%	1
R209	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R210	RD4 7 1251 KV000	Carbon 470 ohm 1/4W ±10%	1
R211	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R212	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R213	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R214	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R215	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R217	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R218	RD1 5 4251 KV000	Carbon 150k ohm 1/4W ±10%	1
R219	RD3 9 3251 KV000	Carbon 39k ohm 1/4W ±10%	1
R220	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R221	RD1 3 2251 JV000	Carbon 1.3k ohm 1/4W ±5%	1
R222	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R223	RD3 9 3251 KV000	Carbon 39k ohm 1/4W ±10%	1
R224	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R225	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R226	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R227	RD1 5 4251 KV000	Carbon 150k ohm 1/4W ±10%	1
R228	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R229	RD1 2 2251 KV000	Carbon 1.2k ohm 1/4W ±10%	1
R230	RD3 3 1251 KV000	Carbon 330 ohm 1/4W ±10%	1
R231	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R232	RD5 6 4251 KV000	Carbon 560k ohm 1/4W ±10%	1
R233	RD2 2 4251 KV000	Carbon 220k ohm 1/4W ±10%	1
R234	RD2 7 4251 KV000	Carbon 270k ohm 1/4W ±10%	1
R235	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R236	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R240	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R241	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R242	RD3 3 4251 KV000	Carbon 330k ohm 1/4W ±10%	1
R244	RD2 4 3251 JV000	Carbon 24k ohm 1/4W ±5%	1
R245	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R246	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
AMPLIFIER BASE P.C.B. ASSY			
R247	RD3 0 3251 JV000	Carbon 30k ohm 1/4W ±5%	1
R248	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R249	RD1 0 4251 KH000	Carbon 100k ohm 1/4W ±10%	1
R250	RD3 3 4251 KV000	Carbon 330k ohm 1/4W ±10%	1
R251	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R252	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R253	RD1 0 4251 KH000	Carbon 100k ohm 1/4W ±10%	1
R254	RD6 8 3251 KV000	Carbon 68k ohm 1/4W ±10%	1
R256	RD1 8 2251 KV000	Carbon 1.8k ohm 1/4W ±10%	1
R257	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R258	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1
R259	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R260	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R262	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R263	RD8 2 4251 KV000	Carbon 820k ohm 1/4W ±10%	1
R264	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R265	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R271	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R274	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R280	RD1 0 0251 KV000	Carbon 10 ohm 1/4W ±10%	1
R281	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R282	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R283	RD4 7 0251 KV000	Carbon 47 ohm 1/4W ±10%	1
R284	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R285	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R286	RD2 7 4251 KV000	Carbon 270k ohm 1/4W ±10%	1
R287	RD2 2 4251 KV000	Carbon 220k ohm 1/4W ±10%	1
R288	RD2 7 3251 KV000	Carbon 27k ohm 1/4W ±10%	1
R290	RD4 7 2251 KV000	Carbon 4.7k ohm 1/4W ±10%	1
R291	RD1 0 1251 KV000	Carbon 100 ohm 1/4W ±10%	1
R292	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R293	RD1 0 4251 KV000	Carbon 100k ohm 1/4W ±10%	1
R294	RD1 2 4251 KV000	Carbon 120k ohm 1/4W ±10%	1
R295	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R296	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
R297	RD3 3 1251 KV000	Carbon 330 ohm 1/4W ±10%	1
R298	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R301	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R302	RH3 3 1102 KH000	Metal 330 ohm 1W ±10%	1
R303	RH3 3 1102 KH000	Metal 330 ohm 1W ±10%	1
R304	RD1 2 2251 KV000	Carbon 1.2k ohm 1/4W ±10%	1
R305	RD1 8 3251 KH000	Carbon 18k ohm 1/4W ±10%	1
R306	RD1 0 0251 KH000	Carbon 10 ohm 1/4W ±10%	1
R307	RD1 8 2251 KV000	Carbon 1.8k ohm 1/4W ±10%	1
R308	RH1 0 1102 KH000	Metal 100 ohm 1W ±10%	1
R309	RH1 0 1102 KH000	Metal 100 ohm 1W ±10%	1
R310	RH6 8 1102 KH000	Metal 680 ohm 1W ±10%	1
R311	RH2 7 1102 KH000	Metal 270 ohm 1W ±10%	1
R312	RH1 5 1102 KH000	Metal 150 ohm 1W ±10%	1
R313	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1
R315	RD6 8 2251 KV000	Carbon 6.8k ohm 1/4W ±10%	1
R320	RD1 8 2251 KV000	Carbon 1.8k ohm 1/4W ±10%	1
S1	4 2319 73170	Slide Switch Lever (Limiter SW)	1
S2	4 2319 73180	Slide Switch Lever (DOLBY NR SW)	1
S3	4 2319 73220	Slide Switch Lever (Bias SW)	1
S4	4 2319 73171	Slide Switch Lever (EQ SW)	1
S5	4 2319 73171	Slide Switch Lever (Input Select SW)	1
S6	4 2319 73281	Slide Switch Lever (Monitor SW)	1
VR1	4 2229 71762	Volume Control (Input Level)	1
	141 2 4629 00700	Flexible Wire (for S3)	1
RECORD EQ UNIT P.C.B. ASSY			
	4 1329 74170	Record EQ Unit P.C.B. Assy	1
CN25	4 2369 71090	Connector 6P	1
C127	CM6 8 3500 K00SV	Mylar 0.068MF 50V ±10%	1
C129	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C133	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C134	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C136	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C137	CM1 8 3500 K00SV	Mylar 0.018MF 50V ±10%	1

Ref. No.	Part No.	Description	Q'ty
RECORD EQ UNIT P.C.B. ASSY			
C227	CM6 8 3500 K00SV	Mylar 0.068MF 50V ±10%	1
C229	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C233	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C234	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C236	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C237	CM1 8 3500 K00SV	Mylar 0.018MF 50V ±10%	1
D106	4 2029 70160	Diode, 1S953	1
D108	4 2029 70160	Diode, 1S953	1
D109	4 2029 70160	Diode, 1S953	1
D206	4 2029 70160	Diode, 1S953	1
D208	4 2029 70160	Diode, 1S953	1
D209	4 2029 70160	Diode, 1S953	1
L101	4 2729 70120	Peaking Coil 4.7 mH	1
L102	4 2729 70080	Peaking Coil 3.9 mH	1
L103	4 2729 70140	Peaking Coil 3.3 mH	1
L201	4 2729 70120	Peaking Coil 4.7 mH	1
L202	4 2729 70080	Peaking Coil 3.9 mH	1
L203	4 2729 70140	Peaking Coil 3.3 mH	1
Q115	203 5 5100 53650	Transistor, 2SC536	1
Q116	203 5 5100 53650	Transistor, 2SC536	1
Q117	203 5 5100 53650	Transistor, 2SC536	1
Q215	203 5 5100 53650	Transistor, 2SC536	1
Q216	203 5 5100 53650	Transistor, 2SC536	1
Q217	203 5 5100 53650	Transistor, 2SC536	1
R163	RD1 2 1251 KV000	Carbon 120 ohm 1/4W ±10%	1
R165	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R166	RD4 7 2251 KV000	Carbon 4.7k ohm 1/4W ±10%	1
R167	RD5 6 0251 KV000	Carbon 56 ohm 1/4W ±10%	1
R168	RD2 0 2251 JV000	Carbon 2.0k ohm 1/4W ±5%	1
R169	RD8 2 0251 KV000	Carbon 82 ohm 1/4W ±10%	1
R170	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R172	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R173	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R175	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R263	RD1 2 1251 KV000	Carbon 120 ohm 1/4W ±10%	1
R265	RD1 5 3251 KV000	Carbon 15k ohm 1/4W ±10%	1
R266	RD4 7 2251 KV000	Carbon 4.7k ohm 1/4W ±10%	1
R267	RD5 6 0251 KV000	Carbon 56 ohm 1/4W ±10%	1
R268	RD2 0 2251 JV000	Carbon 2.0k ohm 1/4W ±5%	1
R269	RD8 2 0251 KV000	Carbon 82 ohm 1/4W ±10%	1
R270	RD3 9 2251 KV000	Carbon 3.9k ohm 1/4W ±10%	1
R272	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R273	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
R275	RD3 3 3251 KV000	Carbon 33k ohm 1/4W ±10%	1
WIRE LAMP UNIT P.C.B. ASSY			
	4 1329 74230	Wire Lamp Unit P.C.B. Assy	1
	4 2369 71740	Connector 4P	1
	4 2269 30660	Wire Lamp P.C.B.	1
DOLBY NR UNIT P.C.B. ASSY			
	4 1329 74181	DOLBY NR Unit P.C.B. Assy	1
CN6	4 2369 71520	Connector 9P	1
C1	CD1 0 5160 0000V	Electrolytic 1MF 16V	1
C2	CC2 2 1500 KE00C	Ceramic 220PF 50V ±10%	1
C4	CD2 2 7160 0000V	Electrolytic 220MF 16V	1
C5	CM4 7 2500 K00SV	Mylar 0.0047MF 50V ±10%	1
C6	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C7	CM5 6 2500 K00SV	Mylar 0.0056MF 50V ±10%	1
C8	CM2 7 3500 K00SV	Mylar 0.027MF 50V ±10%	1
C9	CA3 3 4100 K000V	Aluminum 0.33MF 10V ±10%	1
C10	CA1 0 4100 K000V	Aluminum 0.1MF 10V ±10%	1
C11	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C12	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
C17	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C18	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
C19	CC2 2 2500 KE00C	Ceramic 0.0022MF 50V ±10%	1
IC1	4 2069 70210	IC, NE645B	1
	141 2 4729 04700	Staple 10	1
L1	4 2729 70190	DOLBY Filter Coil	1

PARTS LIST (Continued)

ef. lo.	Part No.	Description	Q'ty
DOLBY NR UNIT P.C.B. ASSY			
1	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
2	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
3	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
4	RD4 7 3251 KV000	Carbon 47k ohm 1/4W ±10%	1
5	RD1 8 1251 KV000	Carbon 180 ohm 1/4W ±10%	1
6	RD2 7 4251 KV000	Carbon 270k ohm 1/4W ±10%	1
11	RD1 0 5251 KV000	Carbon 1M ohm 1/4W ±10%	1
12	RD2 0 4251 JV000	Carbon 200k ohm 1/4W ±5%	1
13	RD1 0 5251 KV000	Carbon 1M ohm 1/4W ±10%	1
CONTROL AMPLIFIER P.C.B. ASSY			
	4 1329 74191	Control Amplifier P.C.B. Assy	1
	141 2 4729 04400	Staple 12.5	14
N10	4 2359 72110	Connector 3P	1
N11	4 2359 72110	Connector 3P	1
N12	4 2359 72110	Connector 3P	1
N13	4 2359 72110	Connector 3P	1
N14	4 2359 72500	Connector 4P	1
N16	4 2359 72520	Connector 7P	1
N17	4 2359 72110	Connector 3P	1
523	CD1 0 7160 0000V	Electrolytic 100MF 16V	1
524	CD4 7 6100 0000V	Electrolytic 47MF 10V	1
525	CT1 0 5250 M00DV	Tantalum 1MF 25V ±20%	1
527	CD1 0 6160 0000V	Electrolytic 10MF 16V	1
528	CM4 7 3500 K00SV	Mylar 0.047MF 50V ±10%	1
529	CM6 8 3500 K00SV	Mylar 0.068MF 50V ±10%	1
530	CD4 7 6160 0000V	Electrolytic 47MF 16V	1
531	CD2 2 7160 0000V	Electrolytic 220MF 16V	1
533	CD3 3 7160 0000V	Electrolytic 330MF 16V	1
534	CD3 3 7100 0000V	Electrolytic 330MF 10V	1
536	CD4 7 6160 0000V	Electrolytic 47MF 16V	1
537	CD1 0 7160 0000V	Electrolytic 100MF 16V	1
538	CD4 7 6160 0000V	Electrolytic 47MF 16V	1
C539	CT4 7 5100 M00DV	Tantalum 4.7MF 10V ±20%	1
C540	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
C541	CD2 2 6160 0000V	Electrolytic 22MF 16V	1
C701	CM2 2 3500 K00SV	Mylar 0.022MF 50V ±10%	1
D504	202 5 9531 01010	Diode, WG1010A	1
D505	202 5 9531 01010	Diode, WG1010A	1
D506	202 5 9531 01010	Diode, WG1010A	1
D507	202 5 9531 01010	Diode, WG1010A	1
D508	202 5 9531 01010	Diode, WG1010A	1
D509	202 5 9531 01010	Diode, WG1010A	1
D511	202 5 9410 010101	Diode, 10D-1	1
D514	4 2029 70430	Diode, WZ-061	1
D518	202 5 9531 01010	Diode, WG1010A	1
D519	202 5 9531 01010	Diode, WG1010A	1
D520	202 5 9531 01010	Diode, WG1010A	1
D701	205 5 9050 44310	Diode, DS443	1
L701	4 2539 70030	RF Choke	1
IC502	4 2069 70390	IC, TC9121P	1
Q506	203 5 5100 53650	Transistor, 2SC536	1
Q507	203 5 6800 65950	Transistor, 2SA659	1
Q508	203 5 6900 40050	Transistor, 2SD400	1
Q509	203 5 6900 40050	Transistor, 2SD400	1
Q511	203 5 6900 40050	Transistor, 2SD400	1
Q512	203 5 6900 40050	Transistor, 2SD400	1
Q513	203 5 6900 40050	Transistor, 2SD400	1
Q514	203 5 6900 40050	Transistor, 2SD400	1
Q515	203 5 6900 40050	Transistor, 2SD400	1
Q517	203 5 6800 65950	Transistor, 2SA659	1
Q518	203 5 5100 53650	Transistor, 2SC536	1
Q519	203 5 5100 53650	Transistor, 2SC536	1
Q701	203 5 0200 18720	Transistor, 2SB187	1
R314	RH1 0 1102 KH000	Metal 100 ohm 1W ±10%	1
R523	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R526	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R527	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R528	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R529	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1

Ref. No.	Part No.	Description	Q'ty
CONTROL AMPLIFIER P.C.B. ASSY			
R530	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R531	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R532	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R534	RD1 5 2251 KV000	Carbon 1.5k ohm 1/4W ±10%	1
R536	RD5 6 1251 KV000	Carbon 560 ohm 1/4W ±10%	1
R537	RD1 2 2251 KV000	Carbon 1.2k ohm 1/4W ±10%	1
R538	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R539	RD1 5 2251 KV000	Carbon 1.5k ohm 1/4W ±10%	1
R540	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R541	RD1 2 2251 KV000	Carbon 1.2k ohm 1/4W ±10%	1
R543	RD1 5 2251 KV000	Carbon 1.5k ohm 1/4W ±10%	1
R544	RD3 9 1251 KV000	Carbon 390 ohm 1/4W ±10%	1
R545	RD3 9 3251 KV000	Carbon 39k ohm 1/4W ±10%	1
R546	RD1 5 4251 KV000	Carbon 150k ohm 1/4W ±10%	1
R547	RD2 2 3251 KV000	Carbon 22k ohm 1/4W ±10%	1
R548	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R549	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R550	RD5 6 0251 KV000	Carbon 56 ohm 1/4W ±10%	1
R551	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R552	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R554	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R555	RD1 0 0251 KV000	Carbon 10 ohm 1/4W ±10%	1
R556	RD5 6 2251 KV000	Carbon 5.6k ohm 1/4W ±10%	1
R558	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R561	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R562	RD3 3 1251 KV000	Carbon 330 ohm 1/4W ±10%	1
R563	RD2 2 2251 KV000	Carbon 2.2k ohm 1/4W ±10%	1
R564	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R566	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R567	RD1 0 2251 KV000	Carbon 1k ohm 1/4W ±10%	1
R568	RD5 6 3251 KV000	Carbon 56k ohm 1/4W ±10%	1
R569	RH1 2 0202 KH000	Metal 12 ohm 2W ±10%	1
R571	RD1 0 3251 KV000	Carbon 10k ohm 1/4W ±10%	1
R701	RD8 2 1251 KV000	Carbon 820 ohm 1/4W ±10%	1
R702	RD2 2 1251 KV000	Carbon 220 ohm 1/4W ±10%	1
R703	RD8 2 1251 KV000	Carbon 820 ohm 1/4W ±10%	1
R704	RD1 8 1251 KV000	Carbon 180 ohm 1/4W ±10%	1
R705	RD4 7 2251 KV000	Carbon 4.7k ohm 1/4W ±10%	1
R706	RD3 3 2251 KV000	Carbon 3.3k ohm 1/4W ±10%	1
R707	RD5 6 1251 KV000	Carbon 560 ohm 1/4W ±10%	1
S8	4 2319 73210	Push Switch (Function Switch)	1
TH701	204 5 9000 00350	Thermister, SDT35	1
T501	4 2729 70200	Coil	1
T502	4 2729 70200	Coil	1
	4 2369 70740	RT Pin	3
RADIATOR P.C.B. ASSY			
	4 1329 74200	Radiator P.C.B. Assy	1
	141 2 3689 05600	Radiator (for Q601, Q602, Q702)	1
	101 3 1303 00611	Screw, Pan Hd. +M3.0x6	2
	143 3 1903 00611	Screw, Brassiere Hd. Tapping-B +M3.0x6	3
Q601	203 5 7330 61251	Transistor, 2SD612	1
Q602	203 5 7330 61251	Transistor, 2SD612	1
Q702	203 5 7330 61251	Transistor, 2SD612	1
R542	4 2219 70100	Resistor 33 ohm 5W	1
	201 2 5010 010061	1S-313D	3
POWER SUPPLY P.C.B. ASSY			
	4 1329 74211	Power Supply P.C.B. Assy	1
CN21	4 2359 72110	Connector 3P	1
CN22	4 2359 72110	Connector 3P	1
CN23	4 2359 72110	Connector 3P	1
CN24	4 2359 72070	Connector 6P	1
C601	CD1 0 8500 0001V	Electrolytic 1000MF 50V	1
C602	CD4 7 7350 0001V	Electrolytic 470MF 35V	1
C603	CD4 7 7350 0001V	Electrolytic 470MF 35V	1
C604	CD4 7 7250 0001V	Electrolytic 470MF 25V	1
C605	CD2 2 7250 0001V	Electrolytic 220MF 25V	1
C606	CD1 0 8160 0001V	Electrolytic 1000MF 16V	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
	POWER SUPPLY P.C.B. ASSY		
C607	CD1 0 8350 0001V	Electrolytic 1000MF 35V	1
C608	CD1 0 8350 0001V	Electrolytic 1000MF 35V	1
C609	CD1 0 8350 0001V	Electrolytic 1000MF 35V	1
D601	4 2029 70750	Diode, RD30E.B4	1
D602	4 2029 70620	Diode, Bridge	1
D603	4 2029 70620	Diode, Bridge	1
D604	4 2029 70620	Diode, Bridge	1
D605	4 2029 70330	Diode, WZ140	1
F1	4 2349 70140	Fuse 1 AT	1
F2	4 2349 70210	Fuse 800 mAT	1
F3	4 2349 70210	Fuse 800 mAT	1
R601	RH3 3 A102 KH000	Metal 3.3 ohm	1
R602	RD5 6 A251 KV000	Carbon 5.6 ohm 1/4W ±10%	1
R603	RD5 6 1251 KV000	Carbon 560 ohm 1/4W ±10%	1
R604	RD5 6 1251 KV000	Carbon 560 ohm 1/4W ±10%	1
R605	RD5 6 A251 KV000	Carbon 5.6 ohm 1/4W ±10%	1
R606	RD2 2 1251 KV000	Carbon 220 ohm 1/4W ±10%	1
	4 2359 70910	Fuse Holder	6
	MECHANISM		
S9	4 2319 71330	Micro Switch (Stop Switch)	1
S10	4 2319 70511	Micro Switch (Interlock Switch)	1
CN4	4 2359 73980	Connector 3P Assy	1
CN5	4 2359 73970	Connector 4P Assy	1
CN9	4 2359 73960	Connector 4P Assy	1
CN12	4 2359 73003	Connector 3P Assy	1
CN13	4 2359 73002	Connector 3P Assy	1
CN14	4 2359 73701	Connector 3P-4P Assy (with CN22)	1
CN16	4 2359 72862	Connector 7P Assy	1
CN17	4 2359 72989	Connector 3P Assy	1
CN23	4 2359 73001	Connector 3P Assy	1
CN24	4 2359 73191	Connector 6P Assy	1
SL1	4 2649 70240	Solenoid (F.F./Rew)	1
SL2	4 2649 70184	Solenoid (Stop)	1
SL3	4 2649 70250	Solenoid (R/P)	1
ME101	4 5119 70510	Indicator Assy (with Lamp)	1
ME201	4 5119 70510	Indicator Assy (with Lamp)	1
M1	4 5279 70890	Motor (for Capstan)	1
M2	4 5279 70741	Motor (for Reel)	1
PL3	4 6129 70360	Lamp (Cassette)	1
PL4	4 6129 70340	Lamp (Tape)	1
PL5	4 6129 70340	Lamp (Source)	1
PL6	4 6129 70340	Lamp (DOLBY)	1
	141 0 3119 16000	Chassis Assy	1
	141 0 3519 13800	Adjust Plate Assy	1
	141 0 3519 13900	Angle Lever Assy	1
	141 0 3519 14000	Supporter Assy	1
	141 0 3519 14100	Motor Bracket Assy	1
	141 0 3519 14200	Counter Bracket Assy	1
HD1	141 0 3519 16900	Head Assy	1
HD2	141 0 3519 17000	Erase Head Assy	1
	141 0 3739 00101	Indicater Holder Assy (with L.E.D.)	1
D301	4 2029 70530	Diode, SLP-114B (Record)	1
	141 0 4469 00200	Cassette Latch Assy	1
	141 0 4469 00201	Cassette Latch Assy	1
	141 0 5219 04900	Flywheel Assy	1
	141 0 5219 04901	Flywheel Assy	1
	141 0 5459 01100	Pinch Roller Arm Assy	1
	141 0 5459 01200	Pinch Roller Arm Assy	1
	141 0 5519 03701	Take-up Reel Assy	1
	141 0 5519 03801	Supply Reel Assy	1
	141 0 5519 04501	Take-up Idler Assy	1
	141 0 5519 04600	Idler Assy	1
	141 0 5729 02300	Holder Assy	2
	141 0 6139 01600	Select Button Complete	1
	141 0 7319 17200	Slide Base Assy	1
	141 0 7419 15100	Idler Arm Assy	1
	141 0 7419 19500	Control Plate Assy	1
	141 0 7419 19600	Contact Lever Assy	1
	141 0 8219 03200	Tape Guide Assy	1

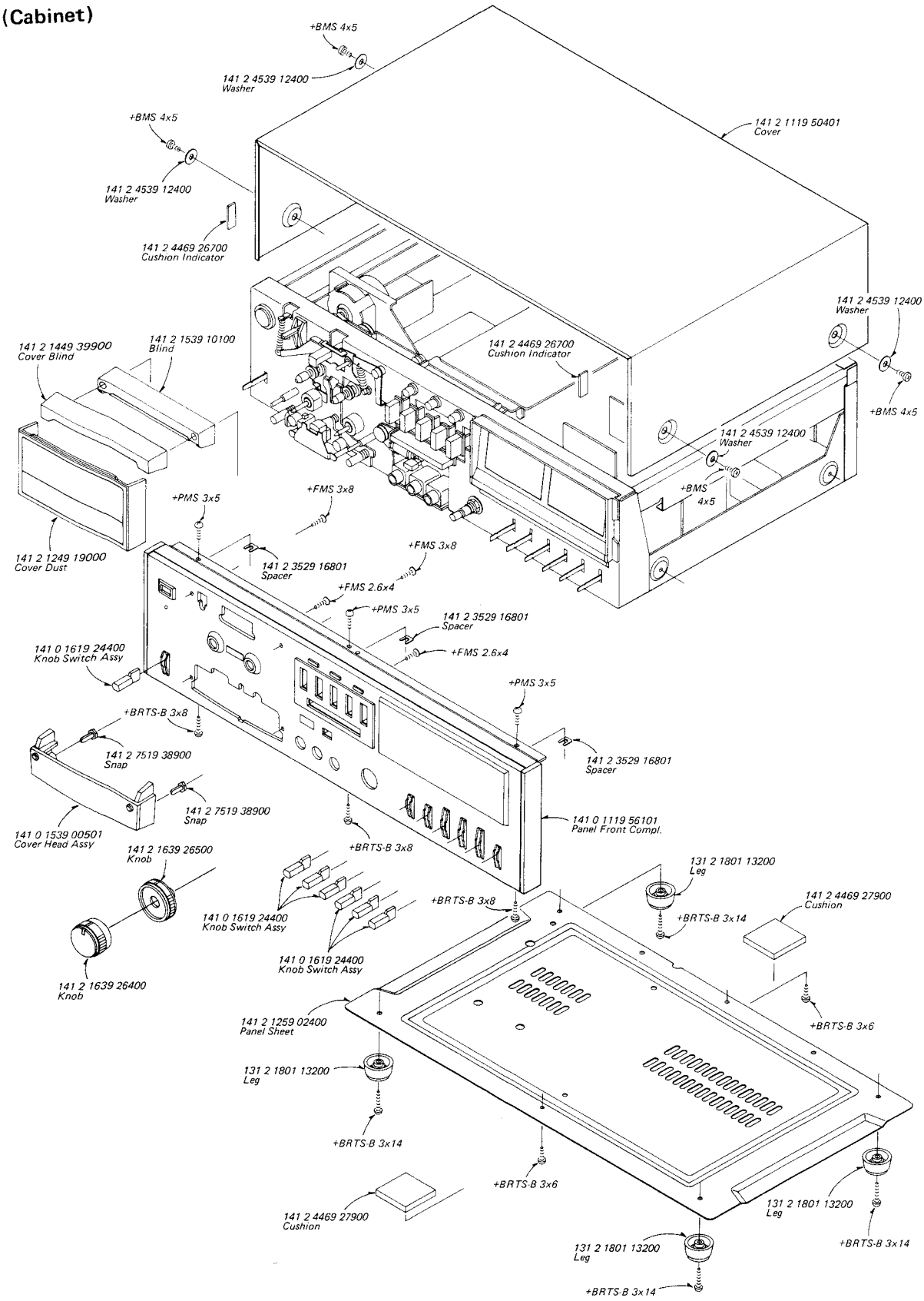
Ref. No.	Part No.	Description	Q'ty
	MECHANISM		
	141 2 3519 29400	Adjustor	1
	141 2 3519 37500	Main Motor Bracket	1
	141 2 3519 37900	Interlock Switch Bracket	1
	141 2 3519 38000	Protector Head	1
	141 2 3519 38100	Select Switch Bracket	1
	141 2 3519 38200	Fix Holder Pin	1
	141 2 3519 39100	Lamp Holder Bracket	1
	141 2 3519 41500	Lock Lever Bracket	1
	141 2 3529 20500	Spacer	1
	141 2 3739 00500	Indicator Holder	3
	141 2 3739 02900	Lamp Holder	1
	141 2 3769 07300	Solenoid Adjustor	1
	141 2 3789 01400	Spacer, Motor	3
	141 2 3799 02700	Motor Pulley	1
	141 2 4179 02800	Nut	2
	141 2 4179 03000	Nylon Nut	1
	141 2 4219 06500	Screw	1
	141 2 4459 08200	Motor Cushion	3
	141 2 4459 08201	Motor Cushion	3
	141 2 4459 21600	Meter Cover	1
	141 2 4469 02500	Capstan Pad	2
	141 2 4469 19900	Adjust Screw	2
	141 2 4469 25600	Chip, Push Cassette	1
	141 2 4539 01400	Washer	1
	141 2 4539 01500	Washer	8
	141 2 4539 01900	Washer	1
	141 2 4539 08900	Washer	4
	141 2 4539 09300	Washer	1
	141 2 4539 13400	Washer, Oil Cut	2
	141 2 4539 13900	Washer	2
	141 2 4729 00200	Lug	4
	141 2 4729 03400	Lug	2
	141 2 5419 01500	Pinch Roller	2
	141 2 5649 09100	Belt	1
	141 2 5649 11400	Belt	2
	141 2 5649 12700	Belt	1
	141 2 7149 02600	Brake	1
	141 2 7319 34900	Adjust Plate	1
	141 2 7419 53200	Cassette Push Lever	1
	141 2 7419 53300	Solenoid Plate	1
	141 2 7419 53400	Slide Base Lever	1
	141 2 7419 54900	Brake Lever	1
	141 2 7529 68600	Interlock Lever Pin	1
	141 2 8119 05300	Counter	1
	141 2 8219 19600	Guide Ball	3
	141 2 8219 23900	Guide Ball	2
	141 2 8219 23901	Guide Ball	1
	141 2 8259 00100	Ball	6
	141 2 8419 09100	Interlock Lever	1
	141 2 8519 05700	Spring, Slide Power Switch Arm	1
	141 2 8519 10600	Spring, Slide Base Stopper	1
	141 2 8519 12400	Spring, Shut-off	1
	141 2 8519 33300	Spring, Cassette Case Lock	1
	141 2 8519 35300	Spring, Slide Base	1
	141 2 8519 59500	Spring, Idler Wind	1
	141 2 8519 62900	Spring, Brake	1
	141 2 8519 63300	Spring, Rewind Roller	1
	141 2 8519 75000	Spring, Pinch Roller	1
	141 2 8519 75001	Spring, Pinch Roller	1
	141 2 8519 76700	Spring	1
	101 3 1202 00411	Screw, Flat Hd. +M2.0x4	1
	101 3 1302 00311	Screw, Pan Hd. +M2.0x3	5
	101 3 1302 00511	Screw, Pan Hd. +M2.0x5	1
	101 3 1302 00611	Screw, Pan Hd. +M2.0x6	1
	101 3 1302 01011	Screw, Pan Hd. +M2.0x10	3
	101 3 1302 60311	Screw, Pan Hd. +M2.6x3	15
	101 3 1302 60411	Screw, Pan Hd. +M2.6x4	10
	101 3 1302 60511	Screw, Pan Hd. +M2.6x5	4
	101 3 1303 00311	Screw, Pan Hd. +M3.0x3	1
	101 3 1303 00411	Screw, Pan Hd. +M3.0x4	16

PARTS LIST (Continued)

Ref. No.	Part No.	Description		Q'ty
	MECHANISM			
	101 3 1303 00511	Screw, Pan Hd.	+M3.0x5	2
	101 3 1303 00611	Screw, Pan Hd.	+M3.0x6	6
	101 3 1303 01011	Screw, Pan Hd.	+M3.0x10	4
	101 3 2502 00811	Screw, Cylinder Hd.	-M2.0x8	1
	110 3 1202 60023	Finished Washer	M2.6	6
	110 3 9350 70025	Washer	M3.5x7.0x0.2	2
	112 3 1301 50040	E Ring	M1.5	2
	112 3 1302 00040	E Ring	M2.0	2
	112 3 1302 50040	E Ring	M2.5	4
	112 3 1303 00040	E Ring	M3.0	4
	115 3 1402 00411	Screw, Slotted Hd.	M2.0x4	2
D510	202 5 9410 010101	Diode, 10D-1		1
D512	202 5 9410 010101	Diode, 10D-1		1

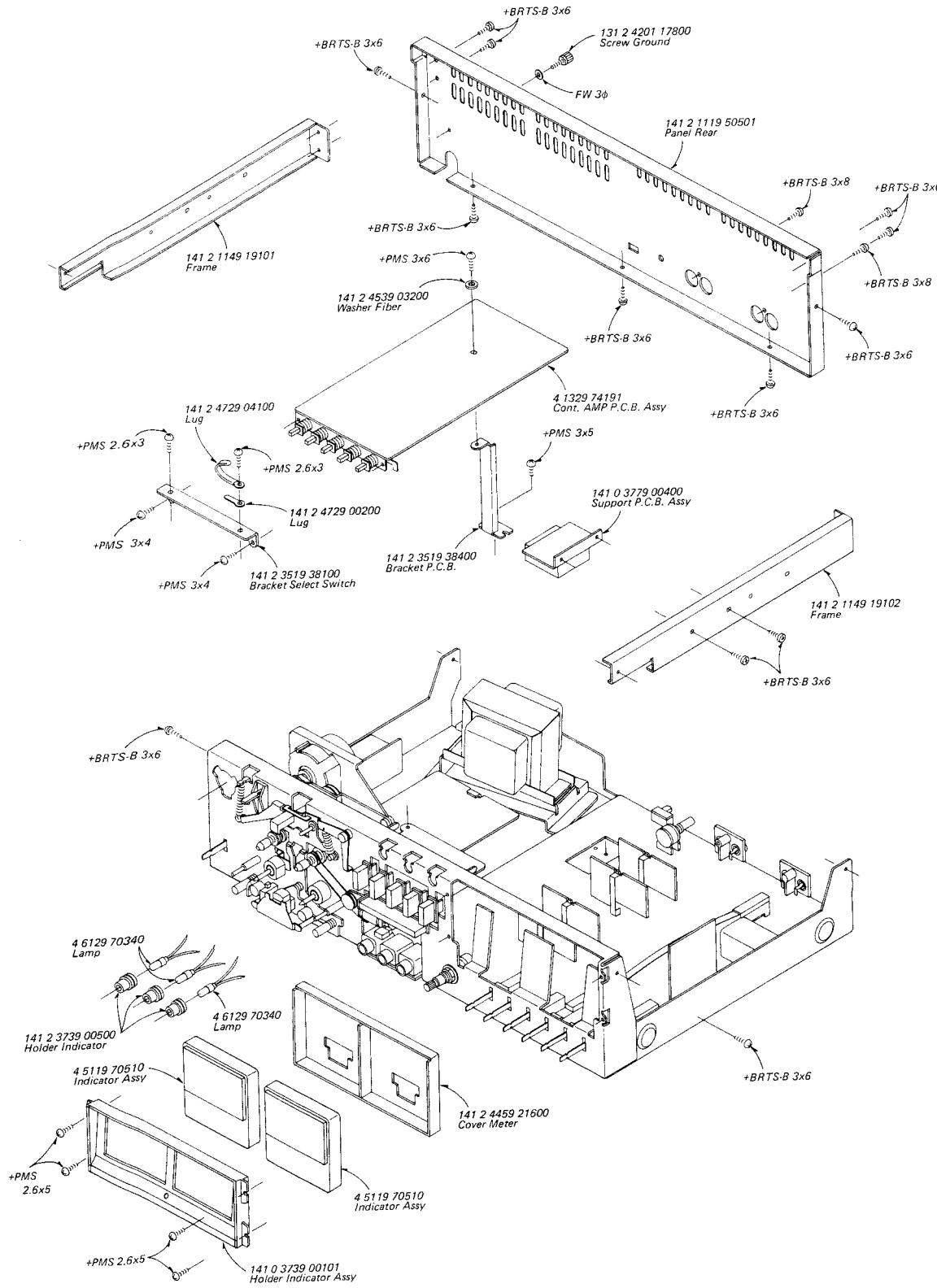
EXPLODED VIEW

(Cabinet)



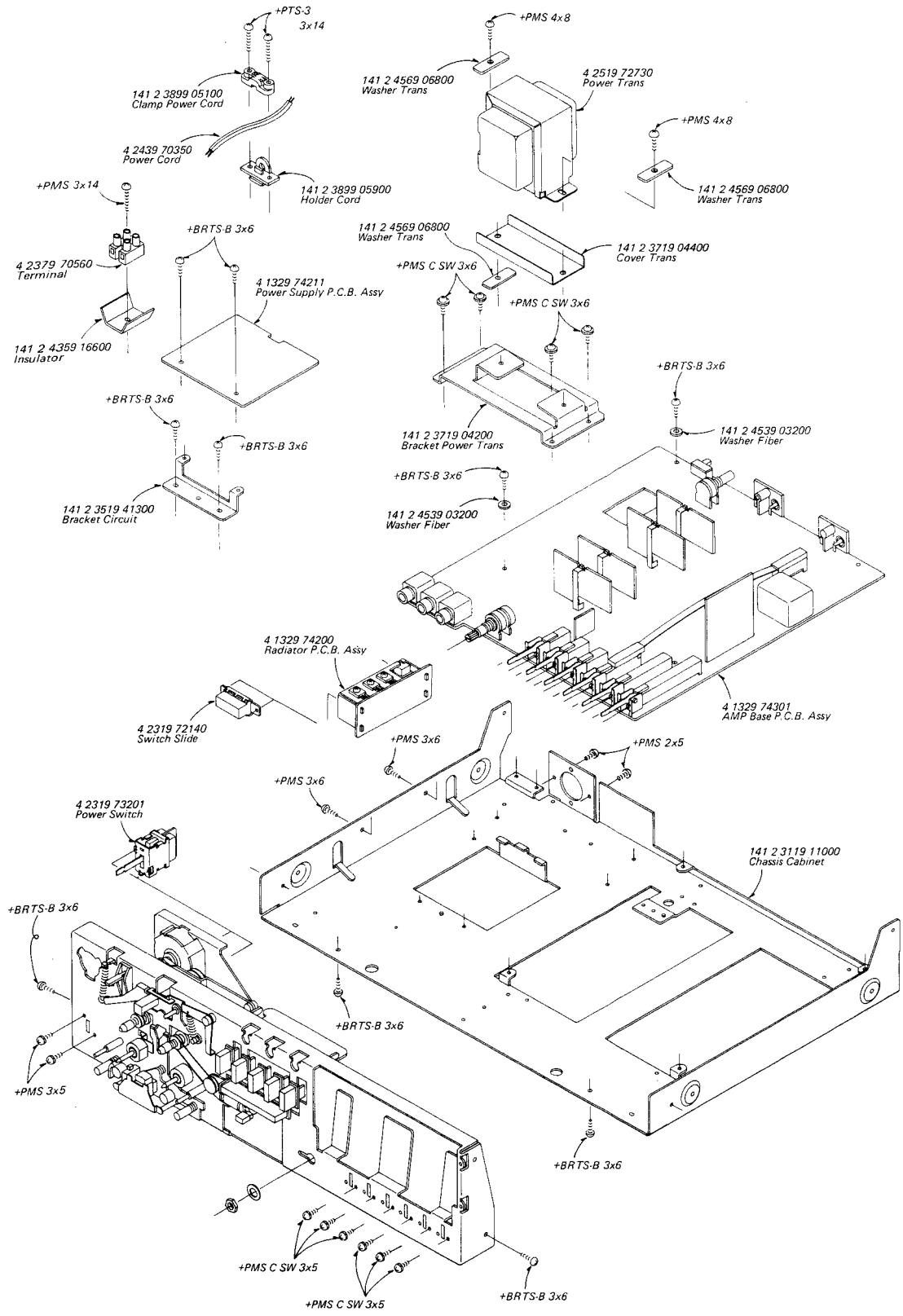
EXPLODED VIEW (Continued)

(Chassis -1)



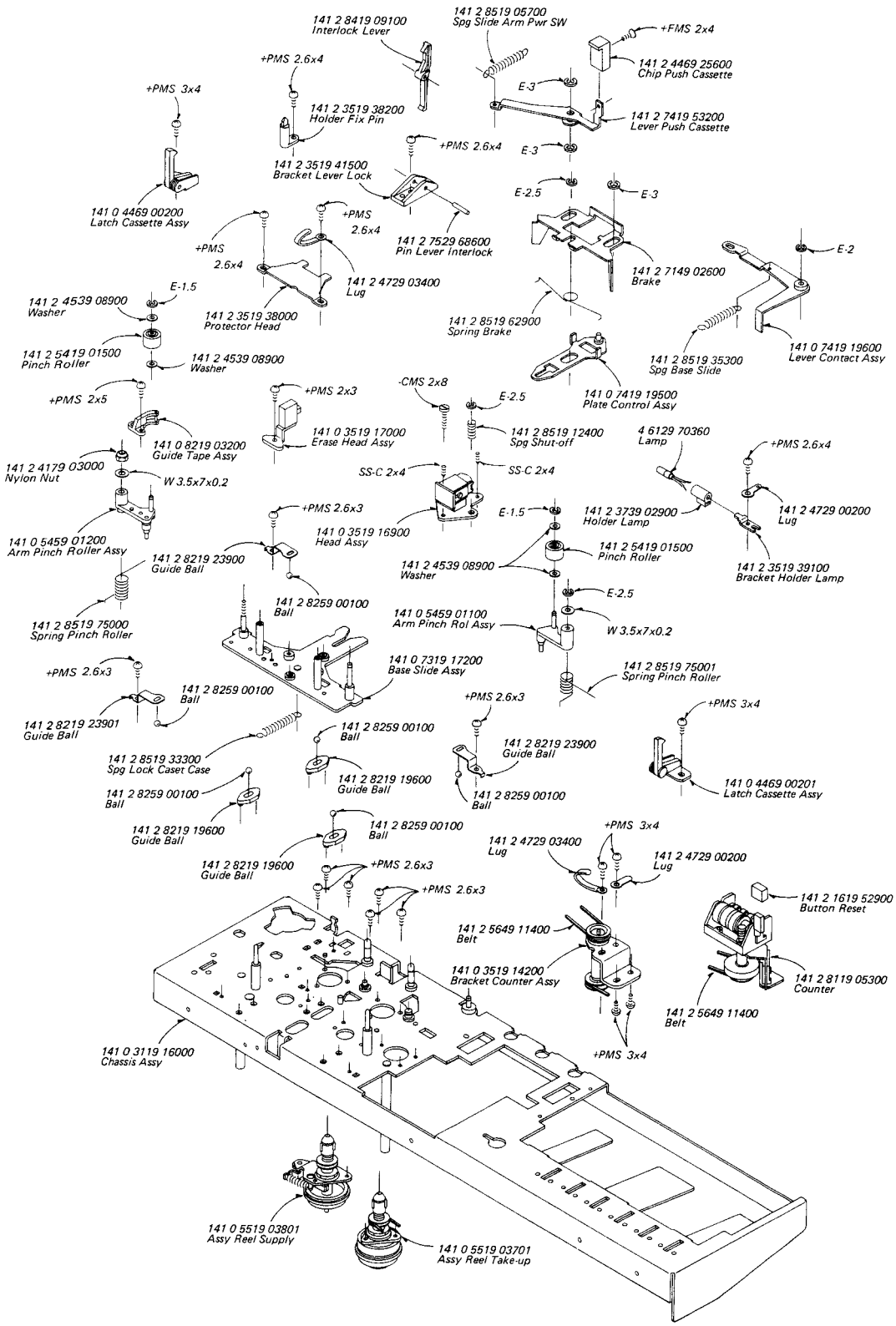
EXPLODED VIEW (Continued)

(Chassis -2)


+PTS-3 3x14
141 2 3899 05100 Clamp Power Cord
4 2439 70350 Power Cord
141 2 3899 05900 Holder Cord
+PMS 4x8
141 2 4569 06800 Washer Trans
4 2519 72730 Power Trans
+PMS 4x8
141 2 4569 06800 Washer Trans
+PMS 3x14
4 2379 70560 Terminal
141 2 4359 16600 Insulator
+BRTS-B 3x6
4 1329 74211 Power Supply P.C.B. Assy
141 2 4569 06800 Washer Trans
141 2 3719 04400 Cover Trans
+PMS C SW 3x6
+PMS C SW 3x6
141 2 3719 04200 Bracket Power Trans
+BRTS-B 3x6
141 2 4539 03200 Washer Fiber
+BRTS-B 3x6
+BRTS-B 3x6
+BRTS-B 3x6
141 2 3519 41300 Bracket Circuit
+BRTS-B 3x6
141 2 4539 03200 Washer Fiber
4 1329 74200 Radiator P.C.B. Assy
4 2319 72140 Switch Slide
4 1329 74301 AMP Base P.C.B. Assy
+PMS 3x6
+PMS 2x5
+PMS 3x6
4 2319 73201 Power Switch
141 2 3119 11000 Chassis Cabinet
+BRTS-B 3x6
+BRTS-B 3x6
+PMS 3x5
+BRTS-B 3x6
+PMS C SW 3x5
+PMS C SW 3x5
+BRTS-B 3x6

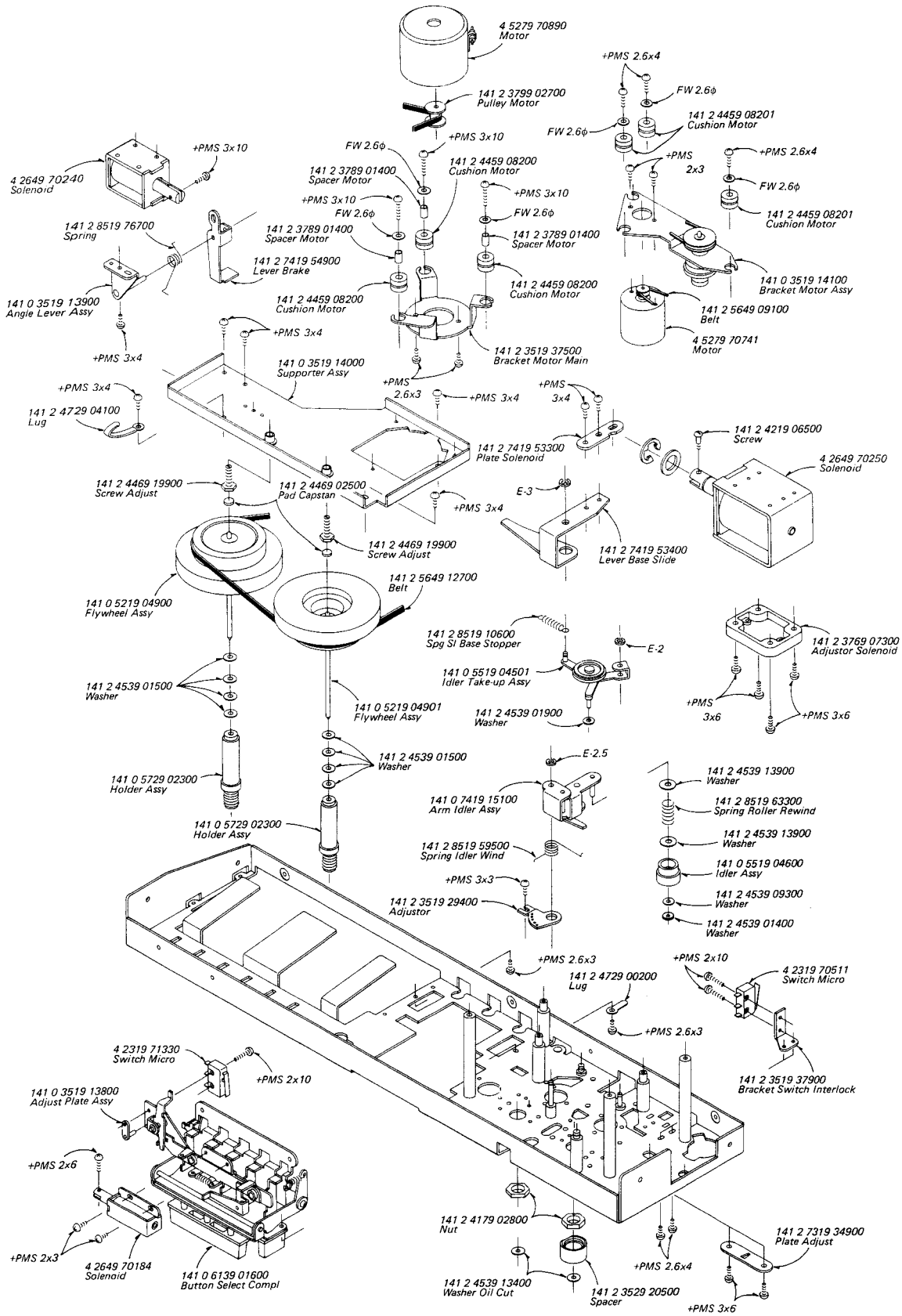
EXPLODED VIEW (Continued)

(Chassis -3 Top)

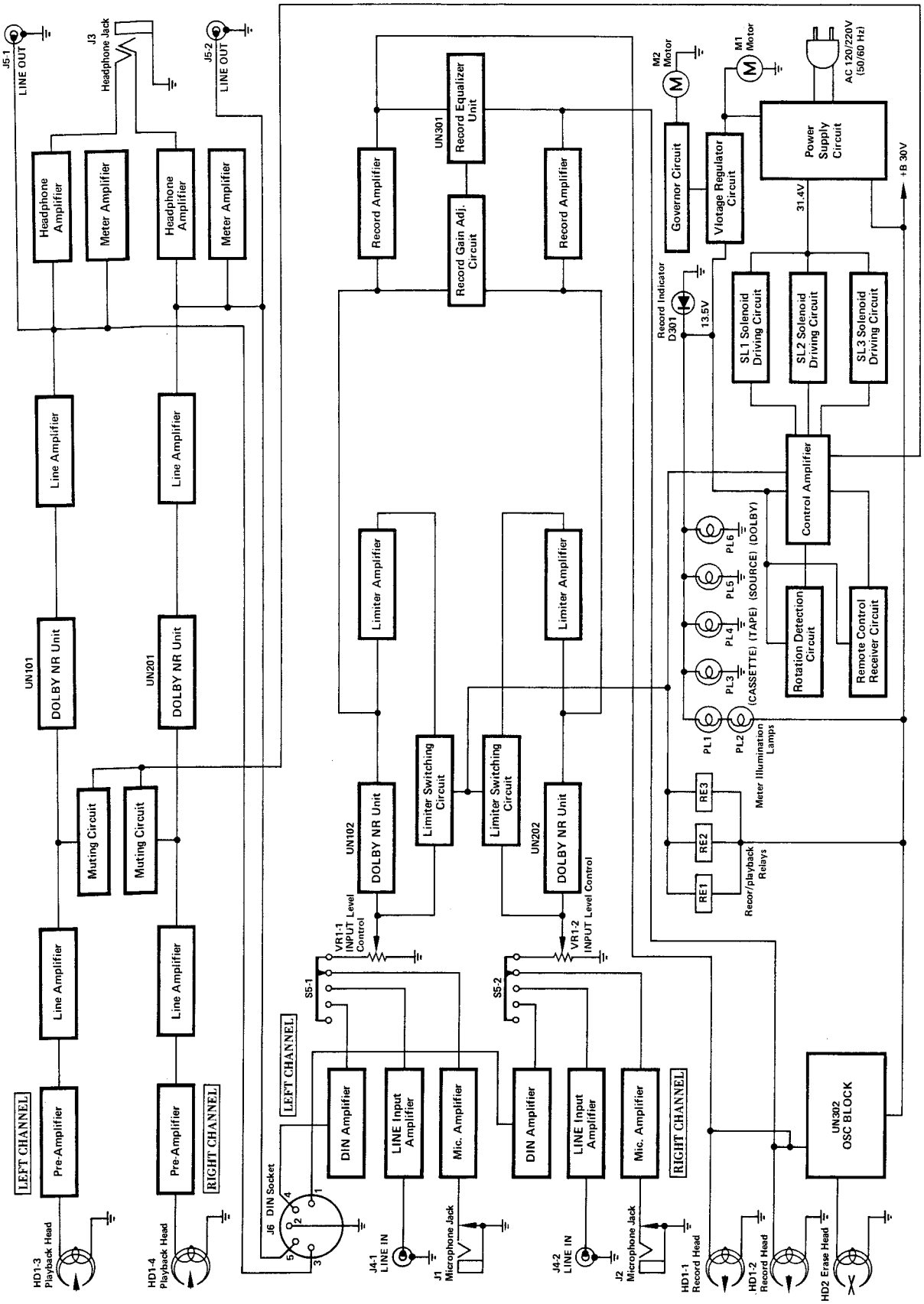


EXPLODED VIEW (Continued)

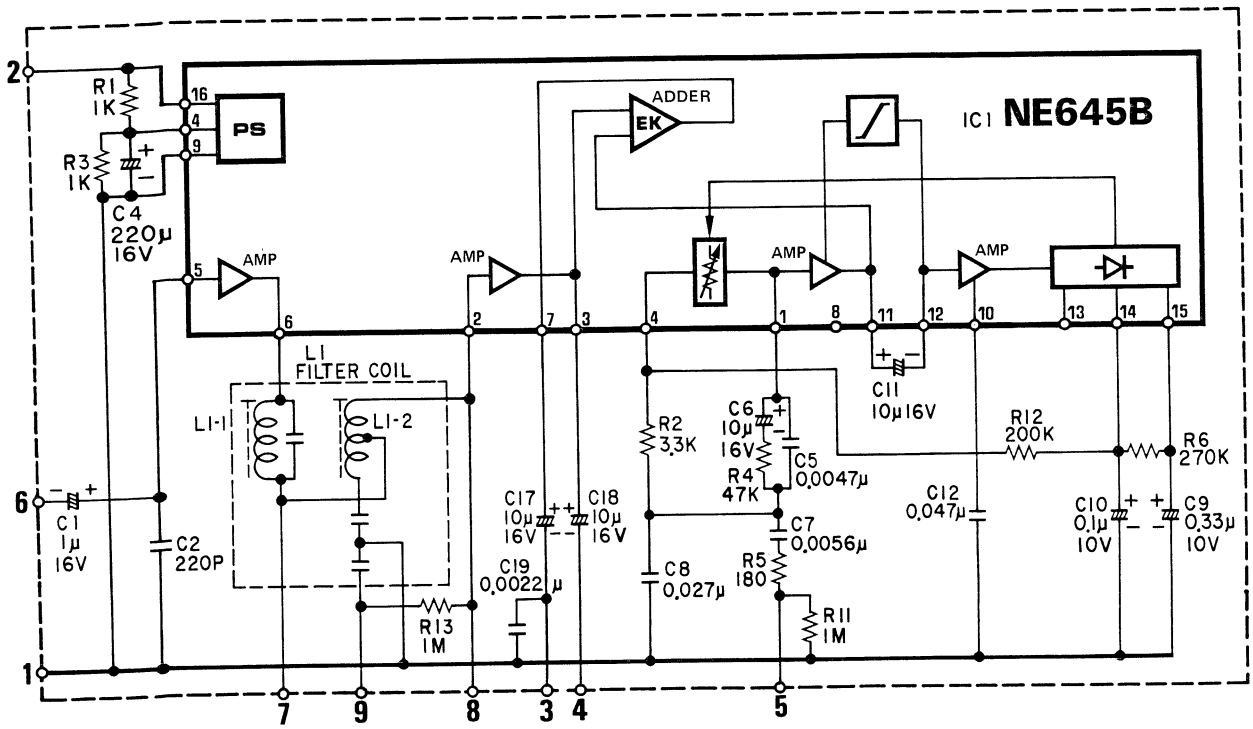
(Chassis -4 Bottom)



BLOCK DIAGRAM

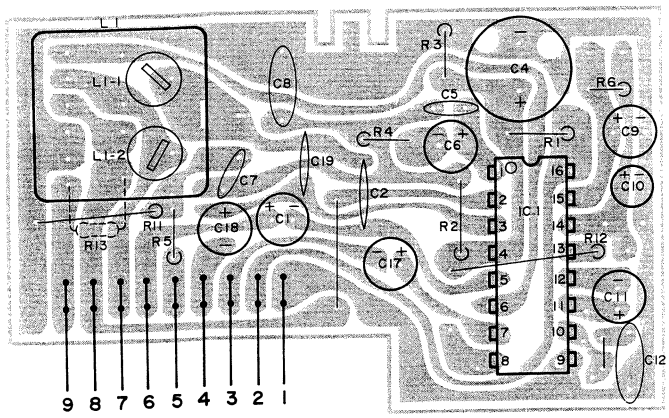


DOLBY NR UNIT SCHEMATIC DIAGRAM

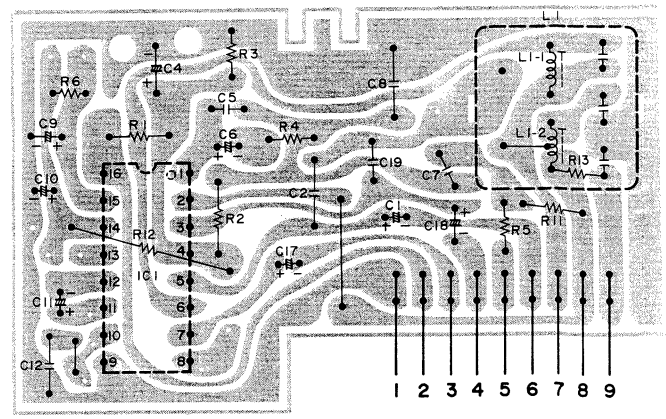


DOLBY NR UNIT P.C.BOARD

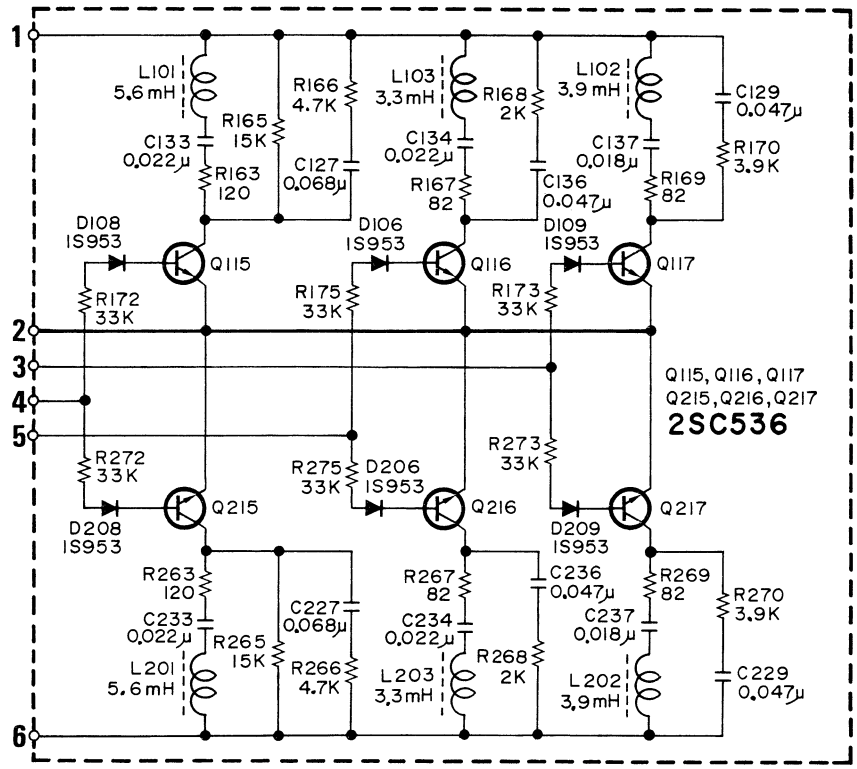
(Top View)



(Bottom View)

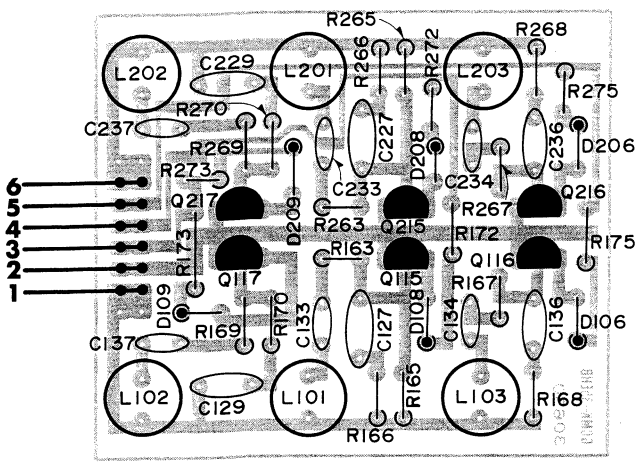


RECORD EQ UNIT SCHEMATIC DIAGRAM

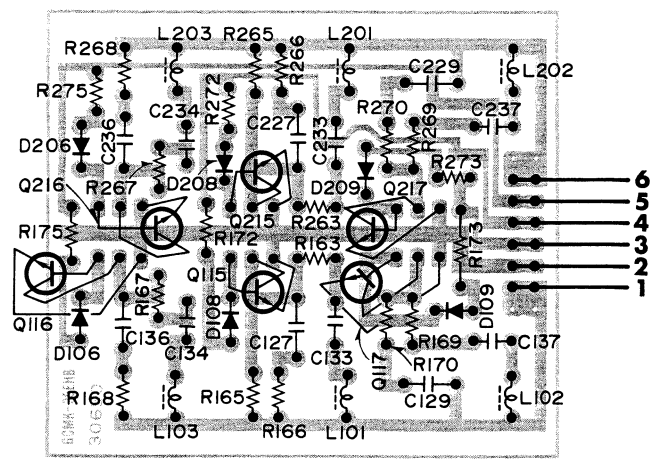


RECORD EQ UNIT P.C.BOARD

(Top View)

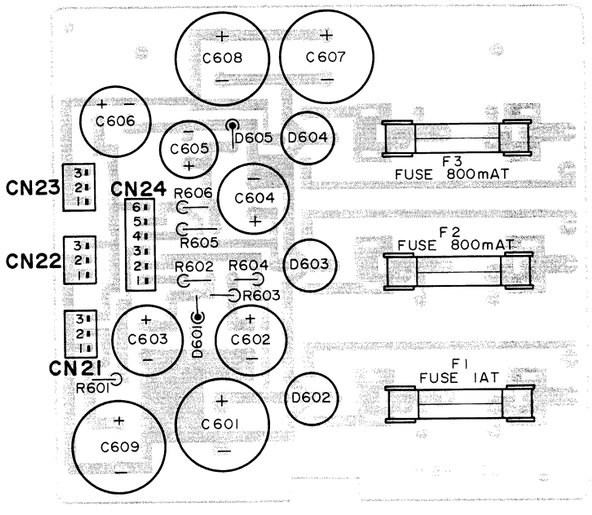


(Bottom View)

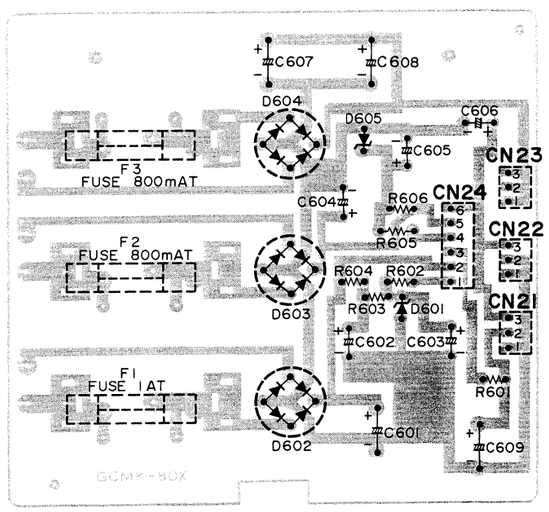


POWER SUPPLY P.C.BOARD

(Top View)

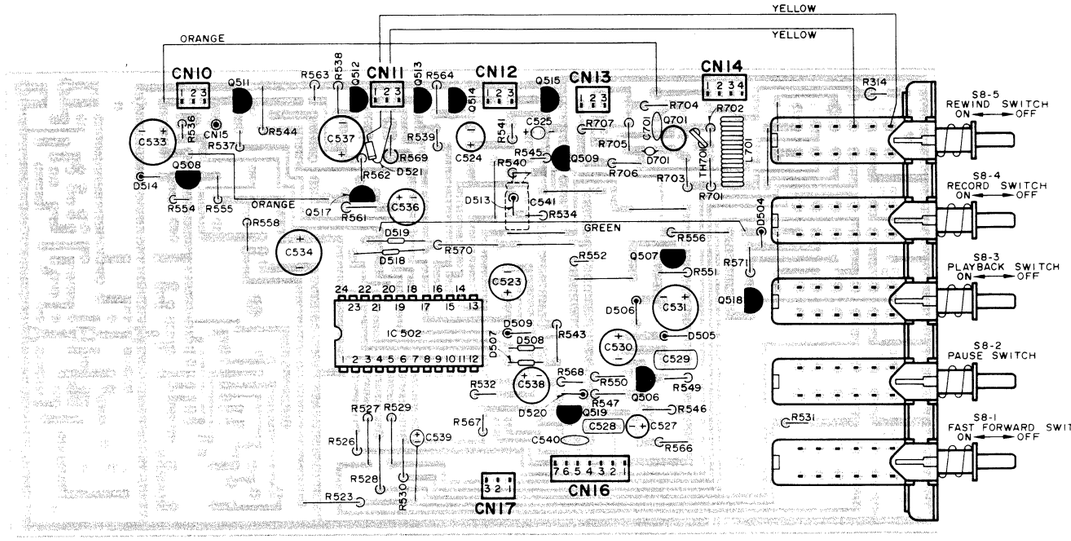


(Bottom View)

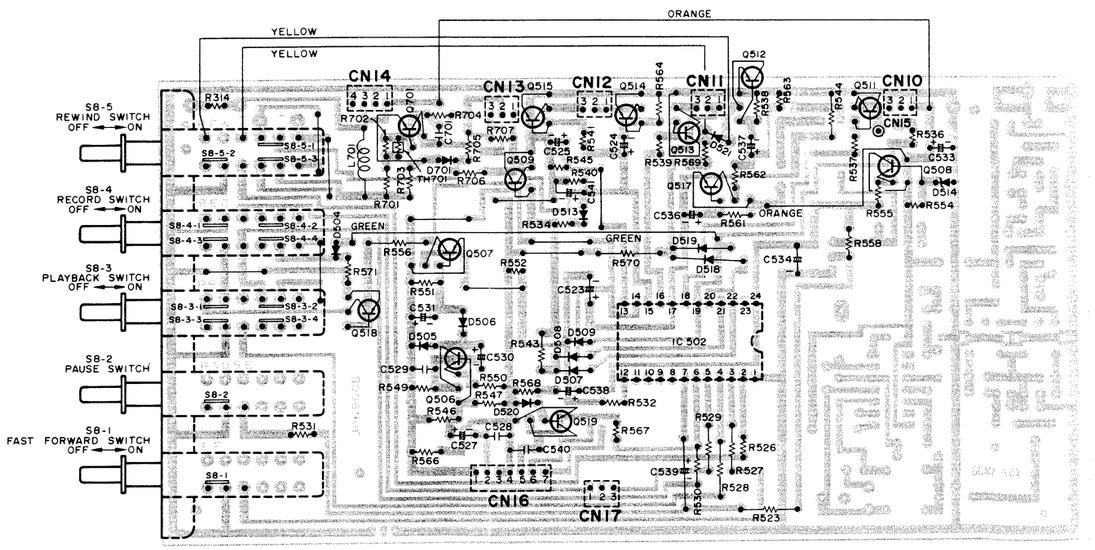


CONTROL AMPLIFIER P.C.BOARD

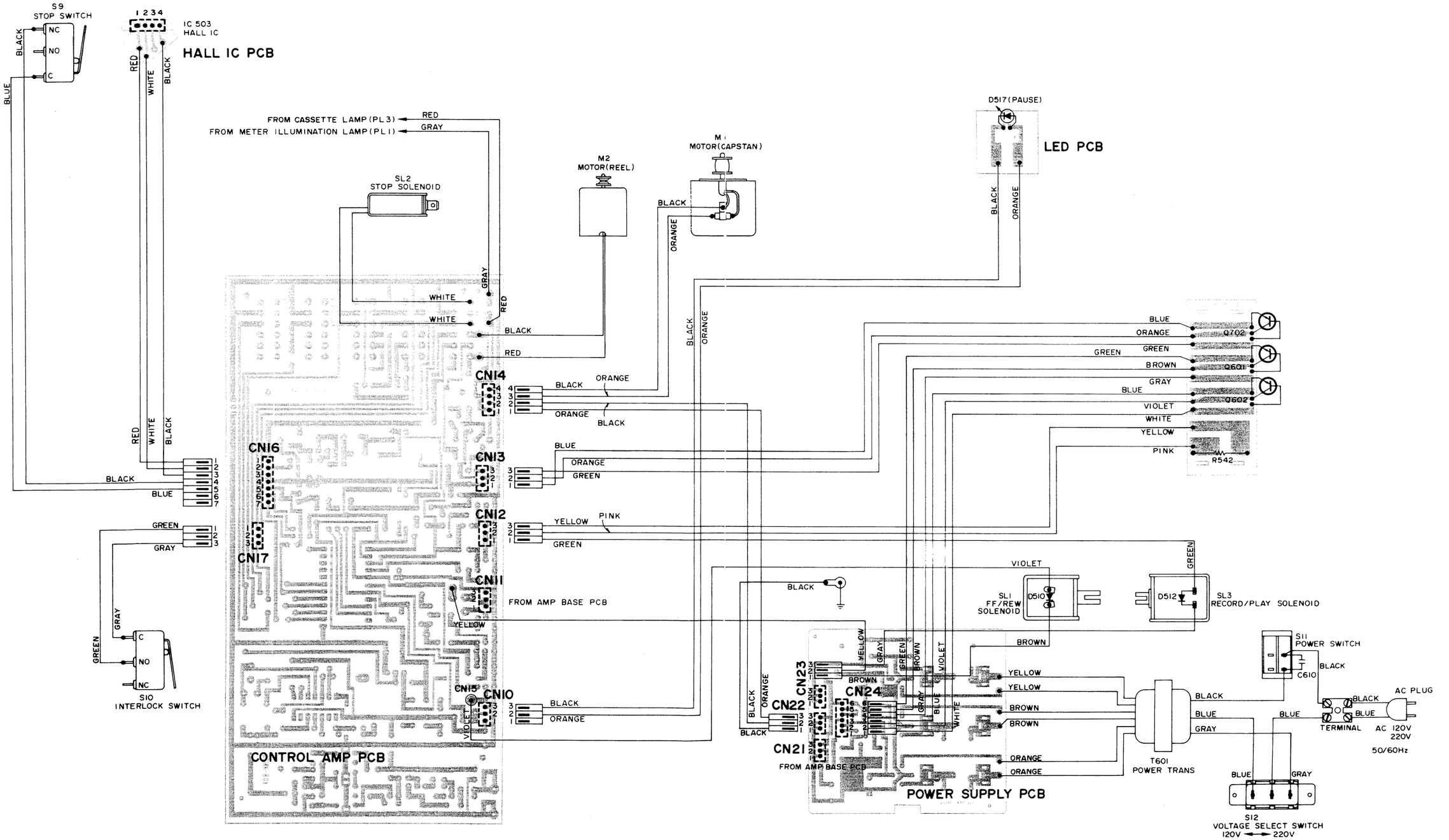
(Top View)



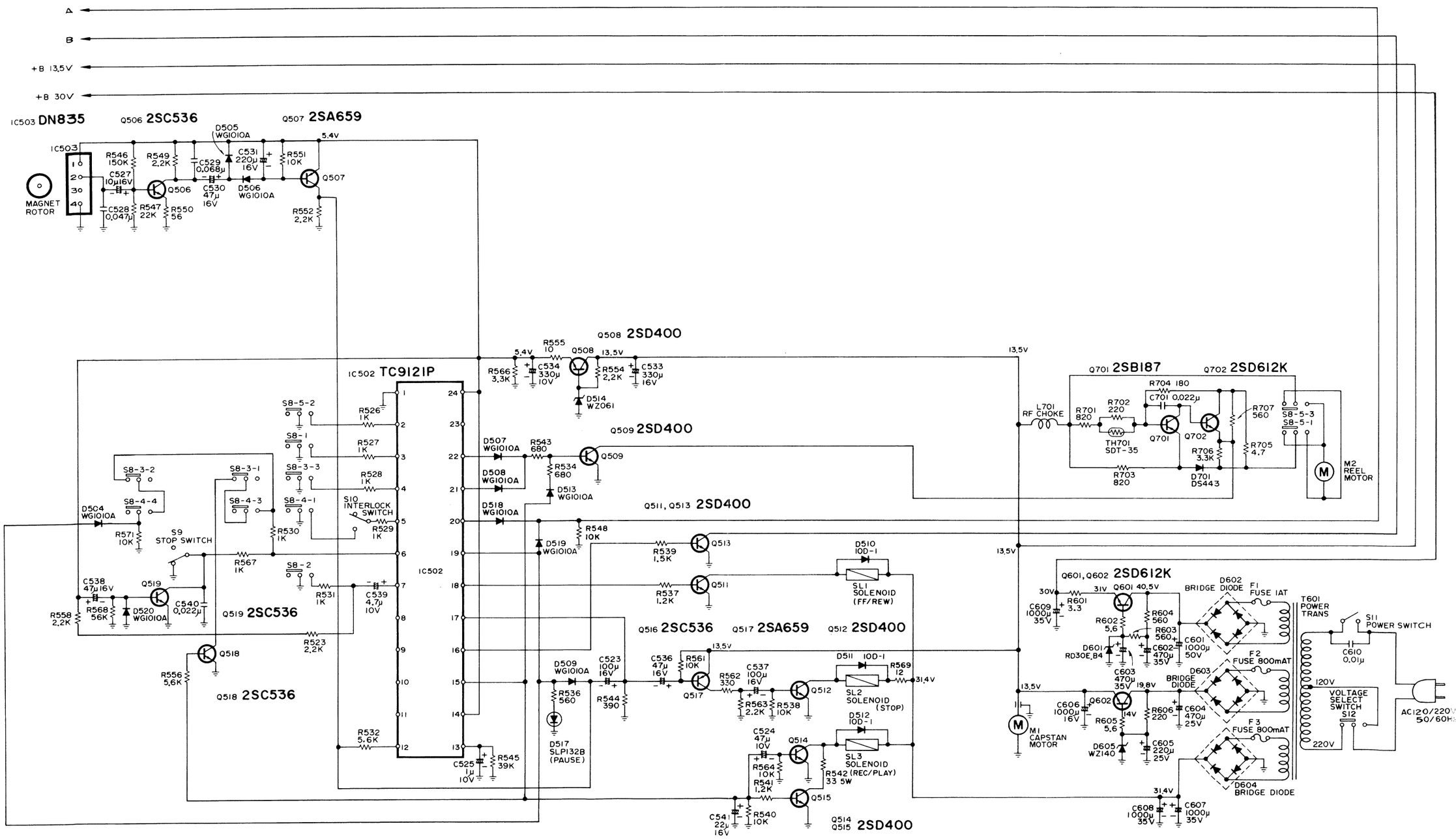
(Bottom View)



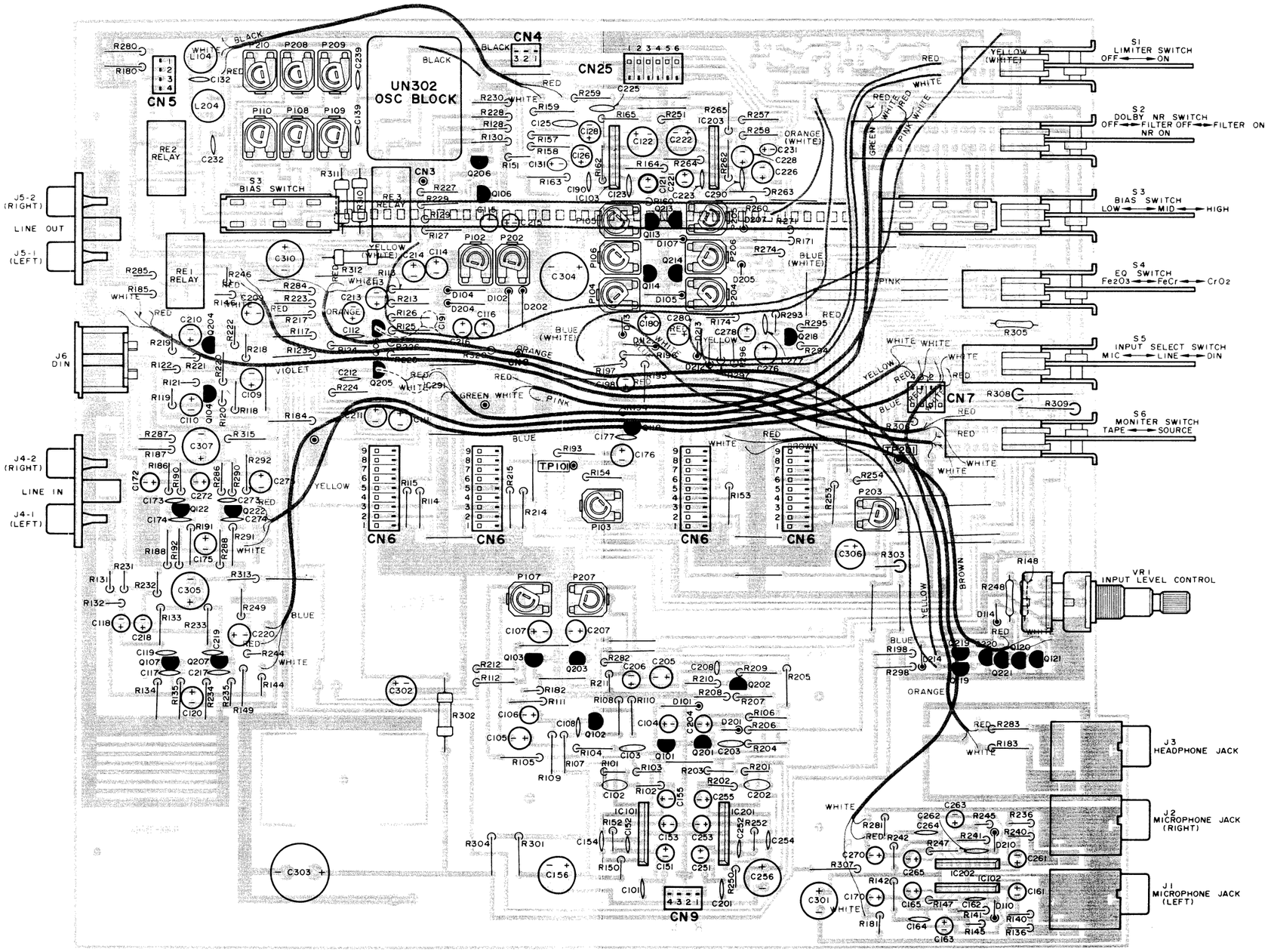
WIRING DIAGRAM (Control)



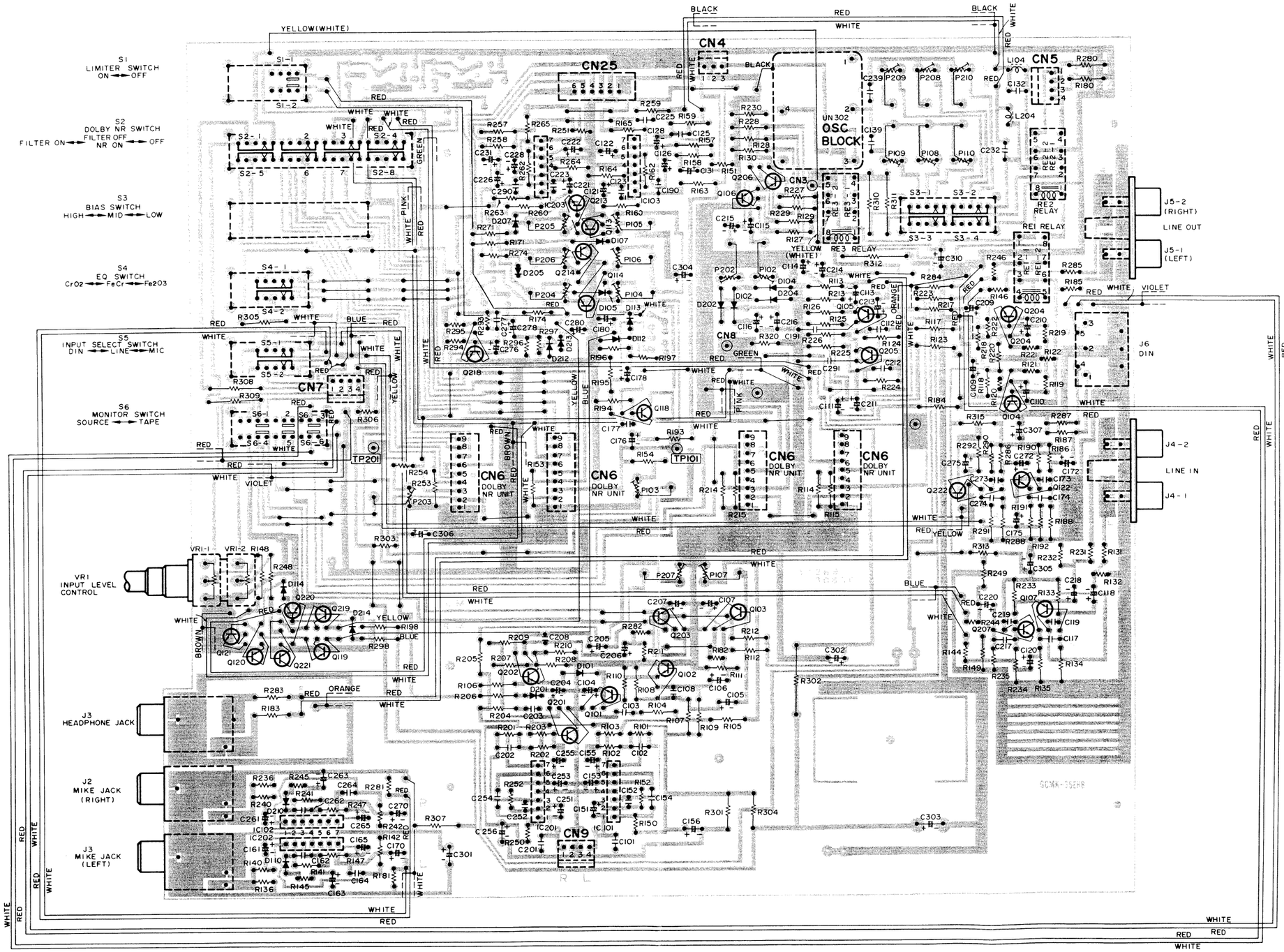
SCHEMATIC DIAGRAM (Control)



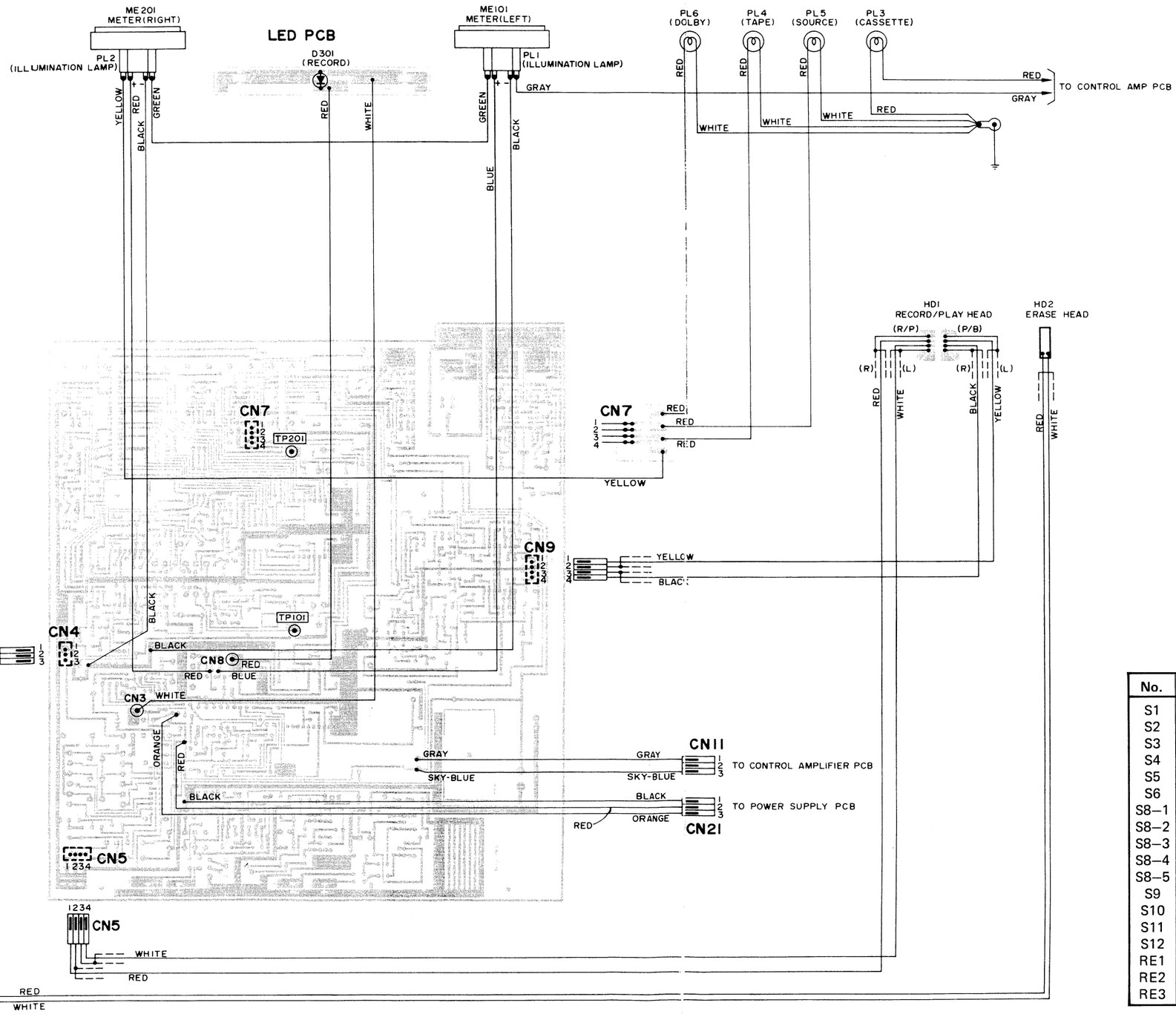
AMPLIFIER BASE P.C.BOARD(Top View)



AMPLIFIER BASE P.C.BOARD(Bottom View)

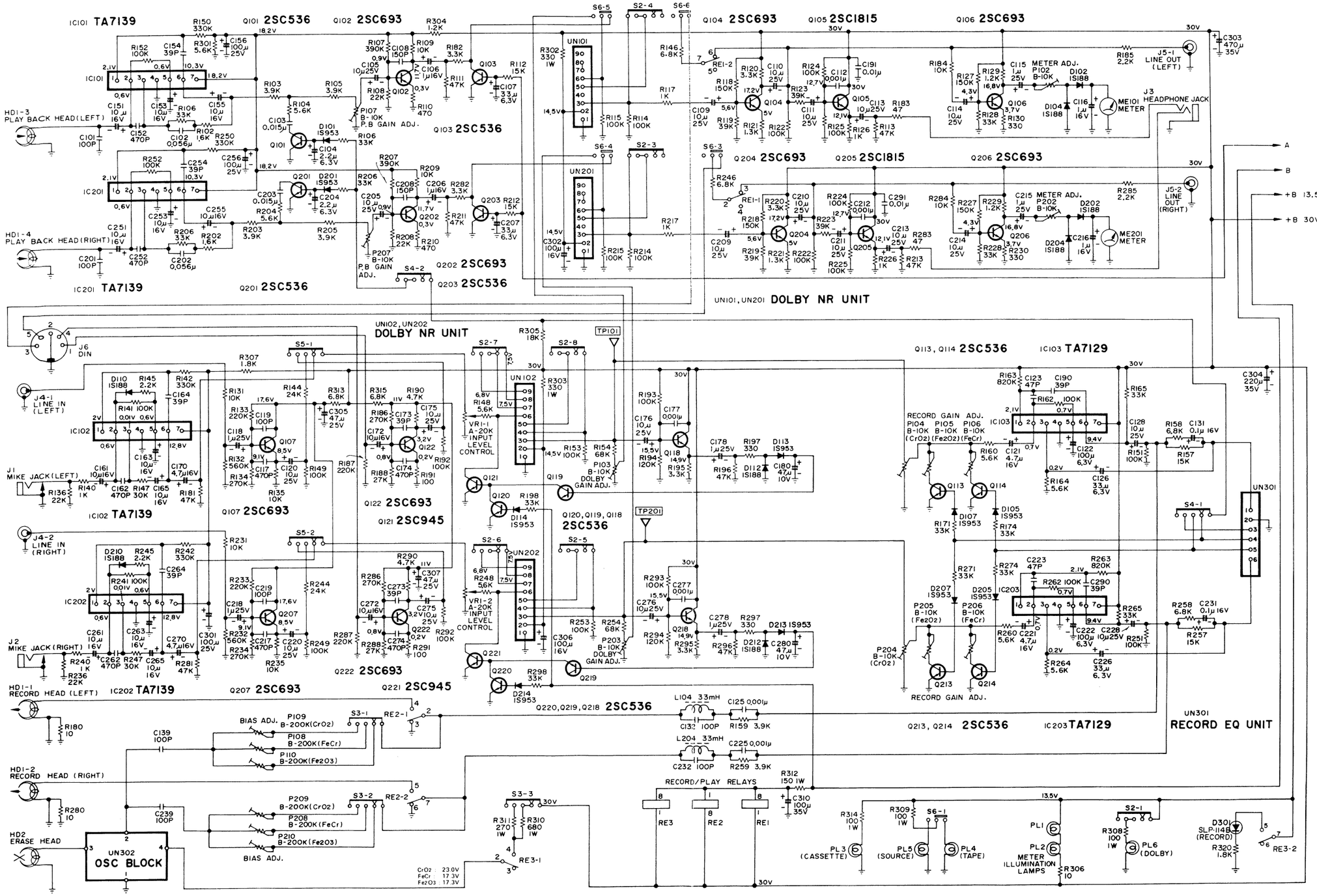


WIRING DIAGRAM (Amplifier)

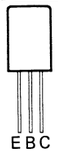
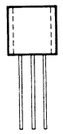
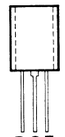
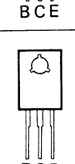


No.	Name	Position
S1	LIMITER Switch	OFF
S2	DOLBY NR Switch	OFF
S3	BIAS Switch	LOW
S4	EQ Switch	Fe2O3
S5	INPUT SELECT Switch	MIC
S6	MONITOR Switch	TAPE
S8–1	FAST FORWARD Switch	OFF
S8–2	PAUSE Switch	OFF
S8–3	PLAYBACK Switch	OFF
S8–4	RECORD Switch	OFF
S8–5	REWIND Switch	OFF
S9	STOP Switch	OFF
S10	INTERLOCK Switch	OFF
S11	POWER Switch	OFF
S12	VOLTAGE SELECT Switch	220V
RE1	RECORD/PLAY RELAY	PLAYBACK
RE2	RECORD/PLAY RELAY	PLAYBACK
RE3	RECORD/PLAY RELAY	PLAYBACK

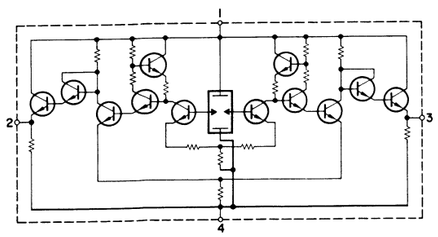
SCHEMATIC DIAGRAM (Amplifier)



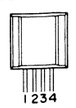
TRANSISTOR LEAD IDENTIFICATION

FRONT VIEW	BOTTOM VIEW	TRANSISTOR
		2SB187
		2SA659 2SC536 2SC693 2SC945 2SC1815
		2SD400
		2SD612K
TERMINAL NAME		
B⇒ BASE C⇒ COLLECTOR E⇒ EMITTER		

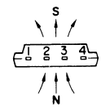
HALL IC DN835 EQUIVALENT CIRCUIT



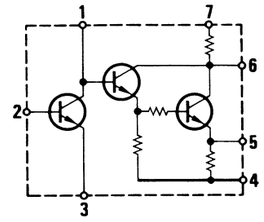
FRONT VIEW



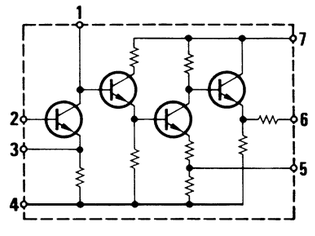
BOTTOM VIEW



IC TA7129 EQUIVALENT CIRCUIT

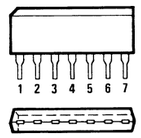


IC TA7139 EQUIVALENT CIRCUIT

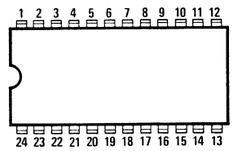


FRONT & BOTTOM VIEWS

TA7129
TA7139



LSI TC9121P BOTTOM VIEW



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